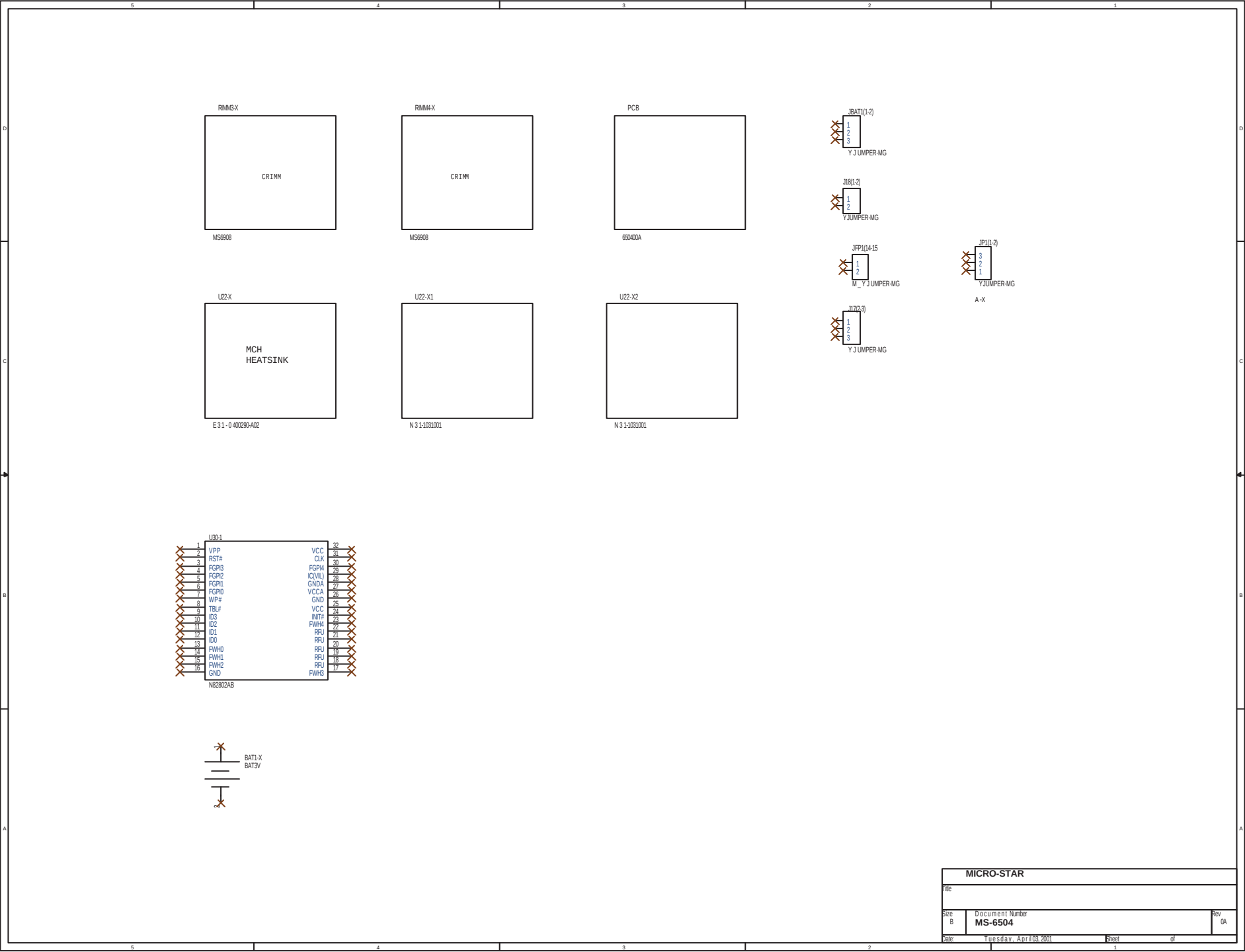
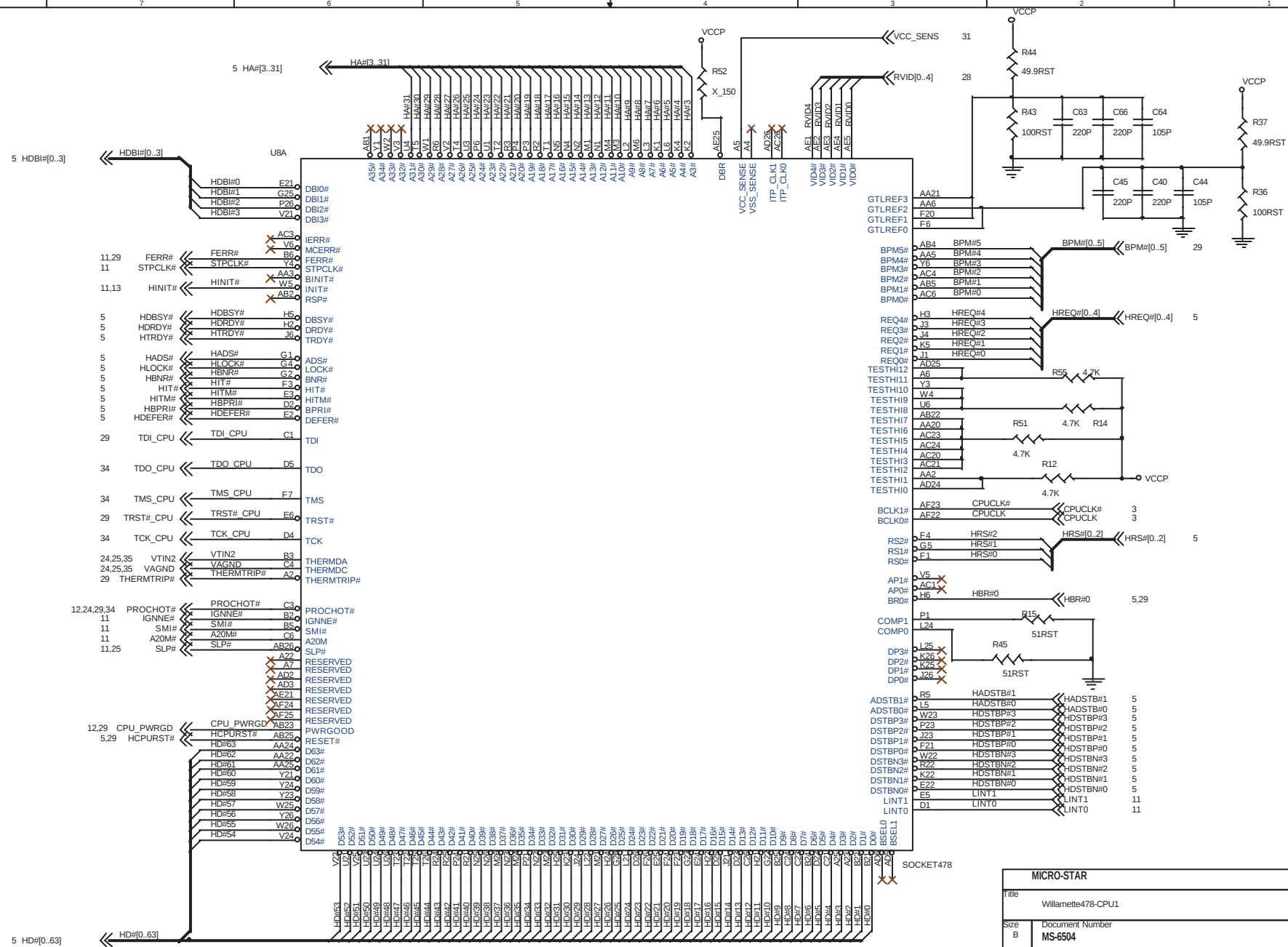
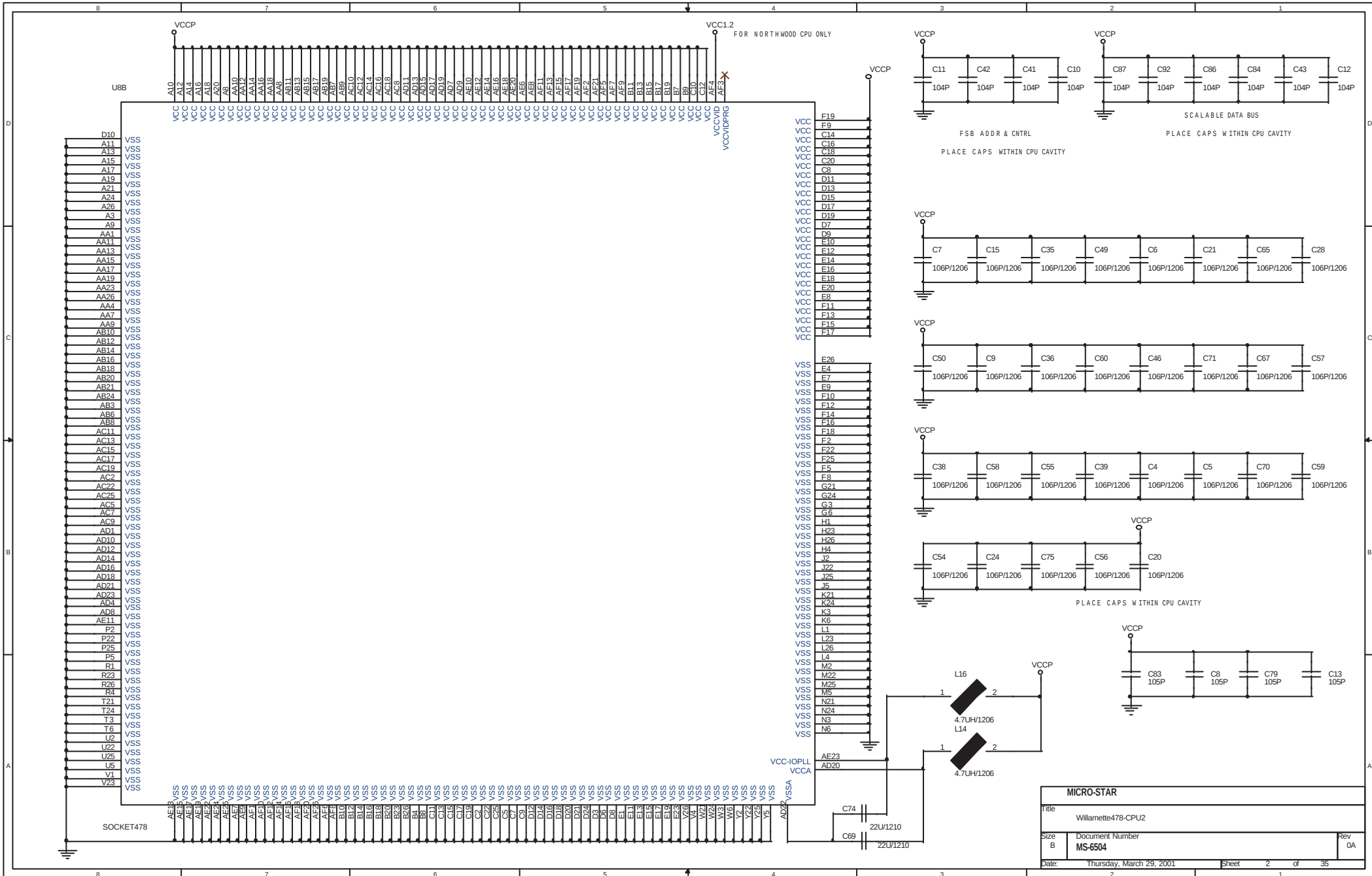
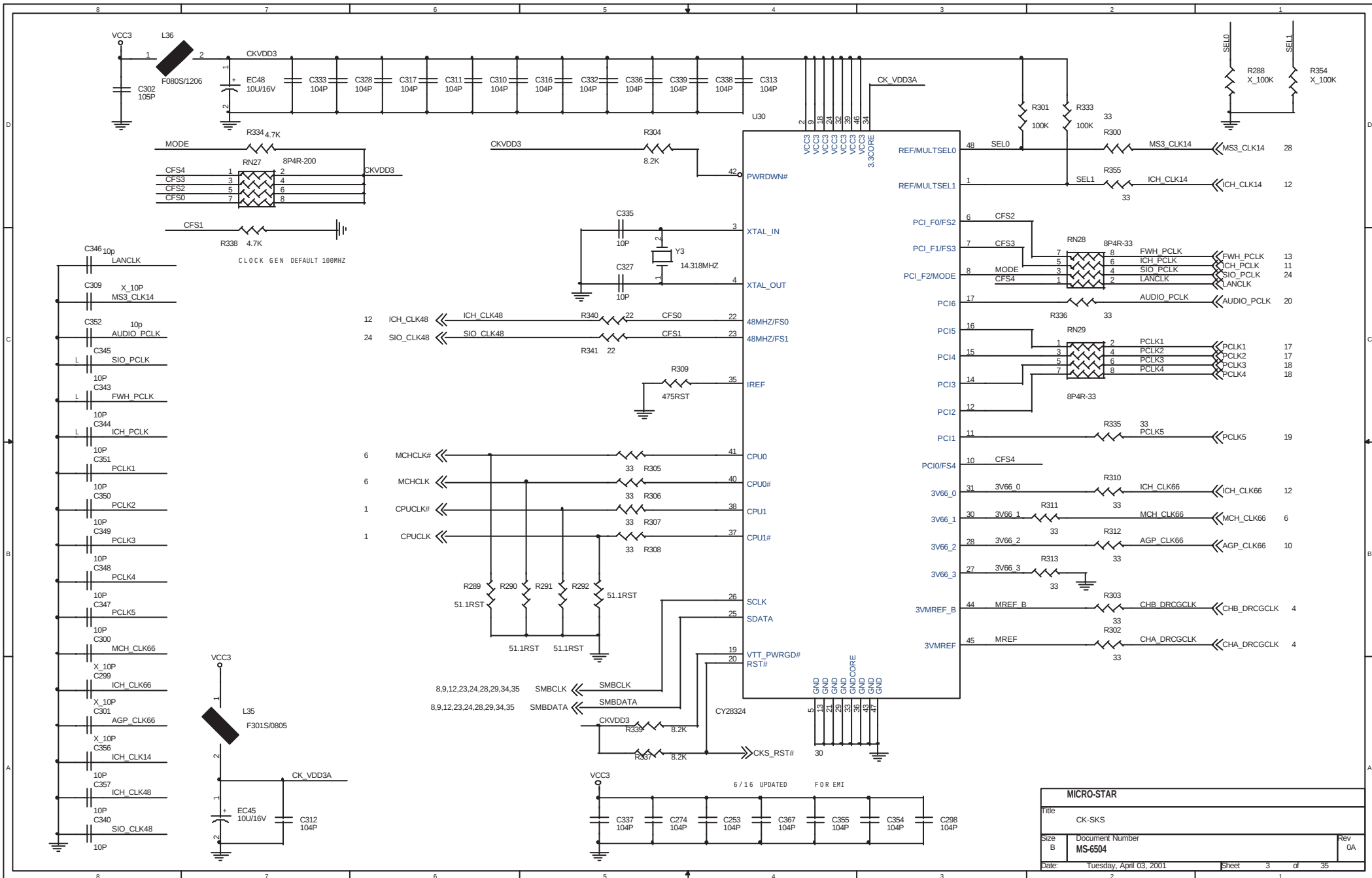




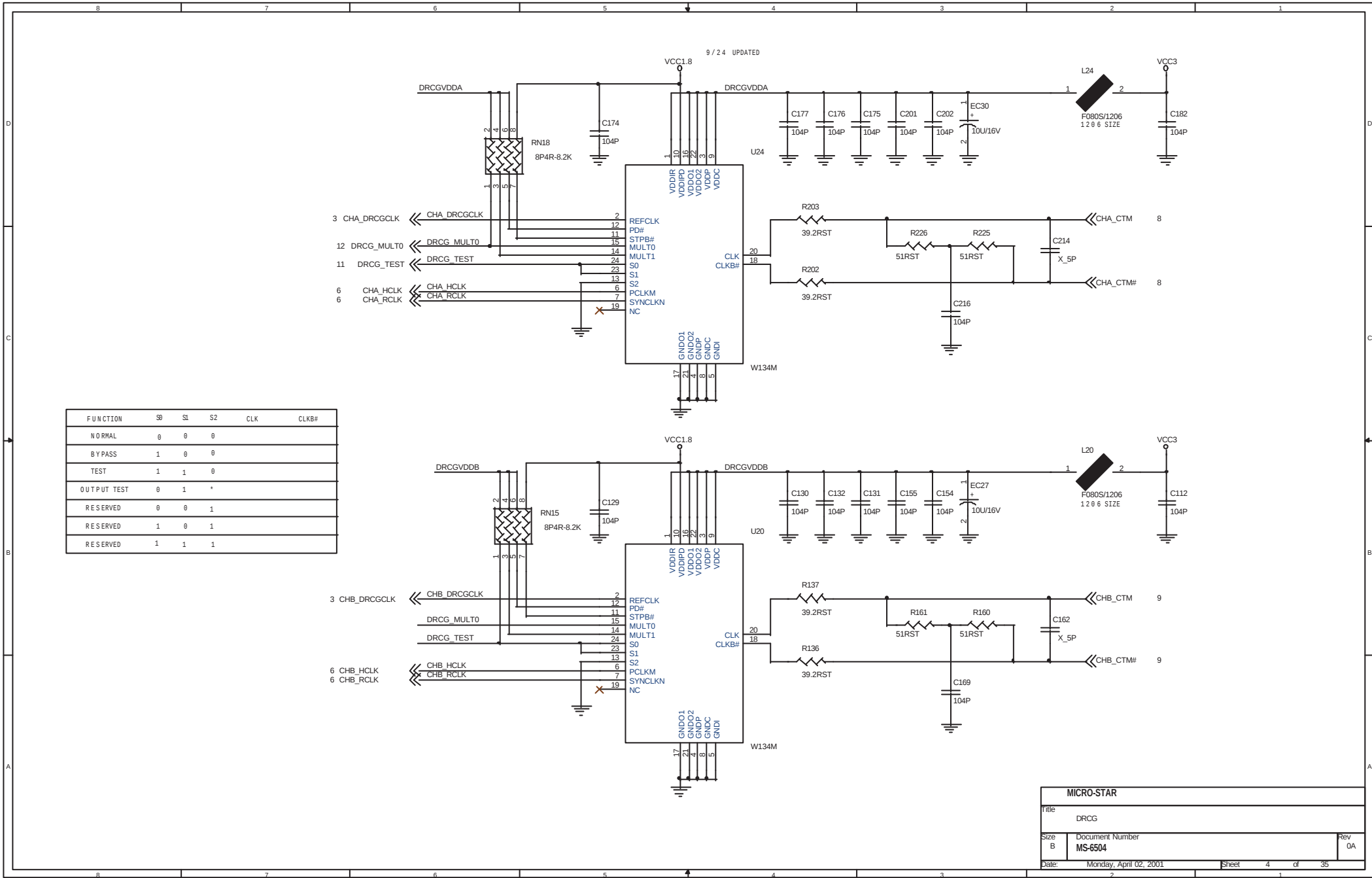


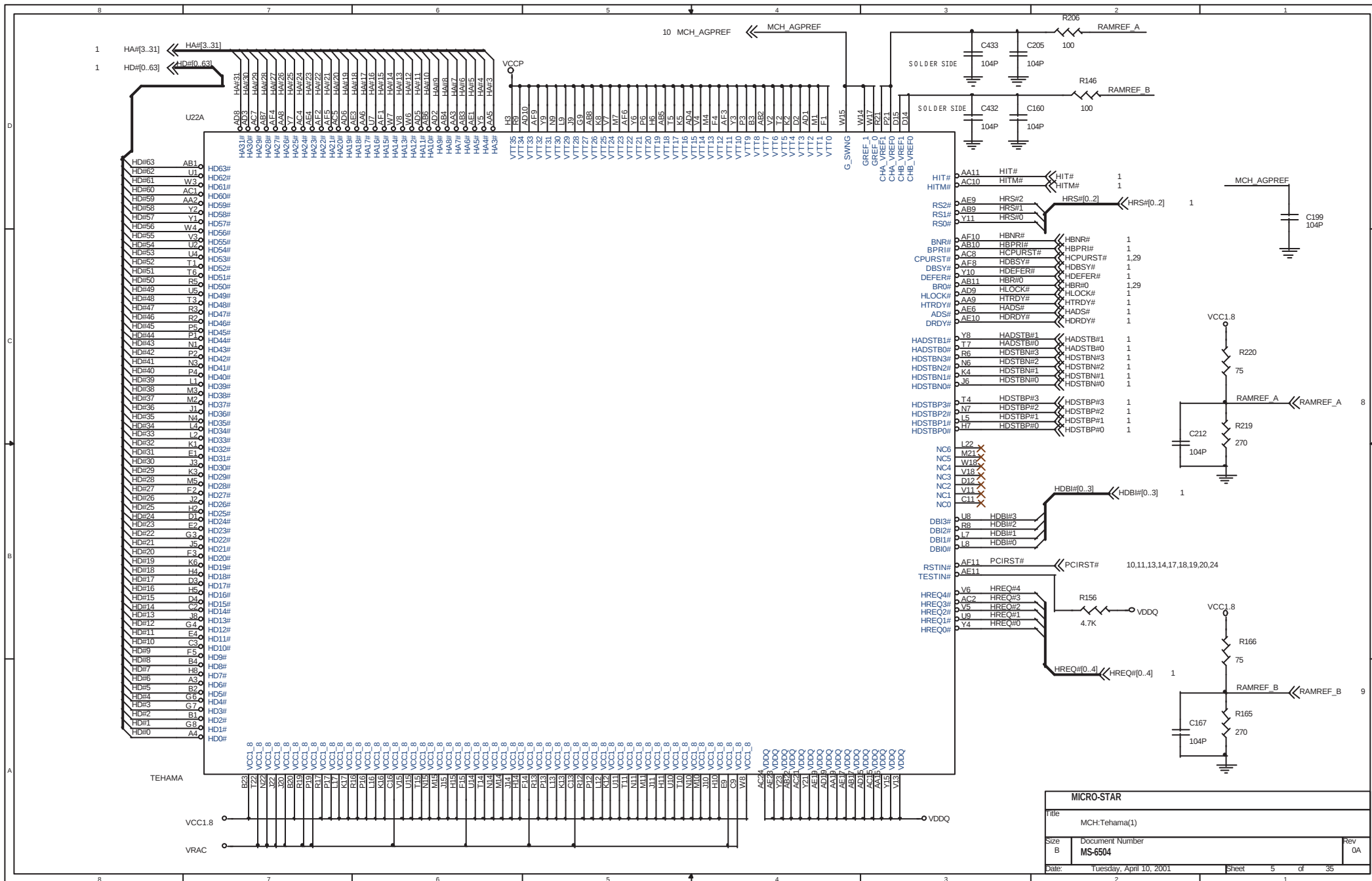
MICRO-STAR			
Title Willamette478-CPU1			
Size B	Document Number MS-6504		Rev QA
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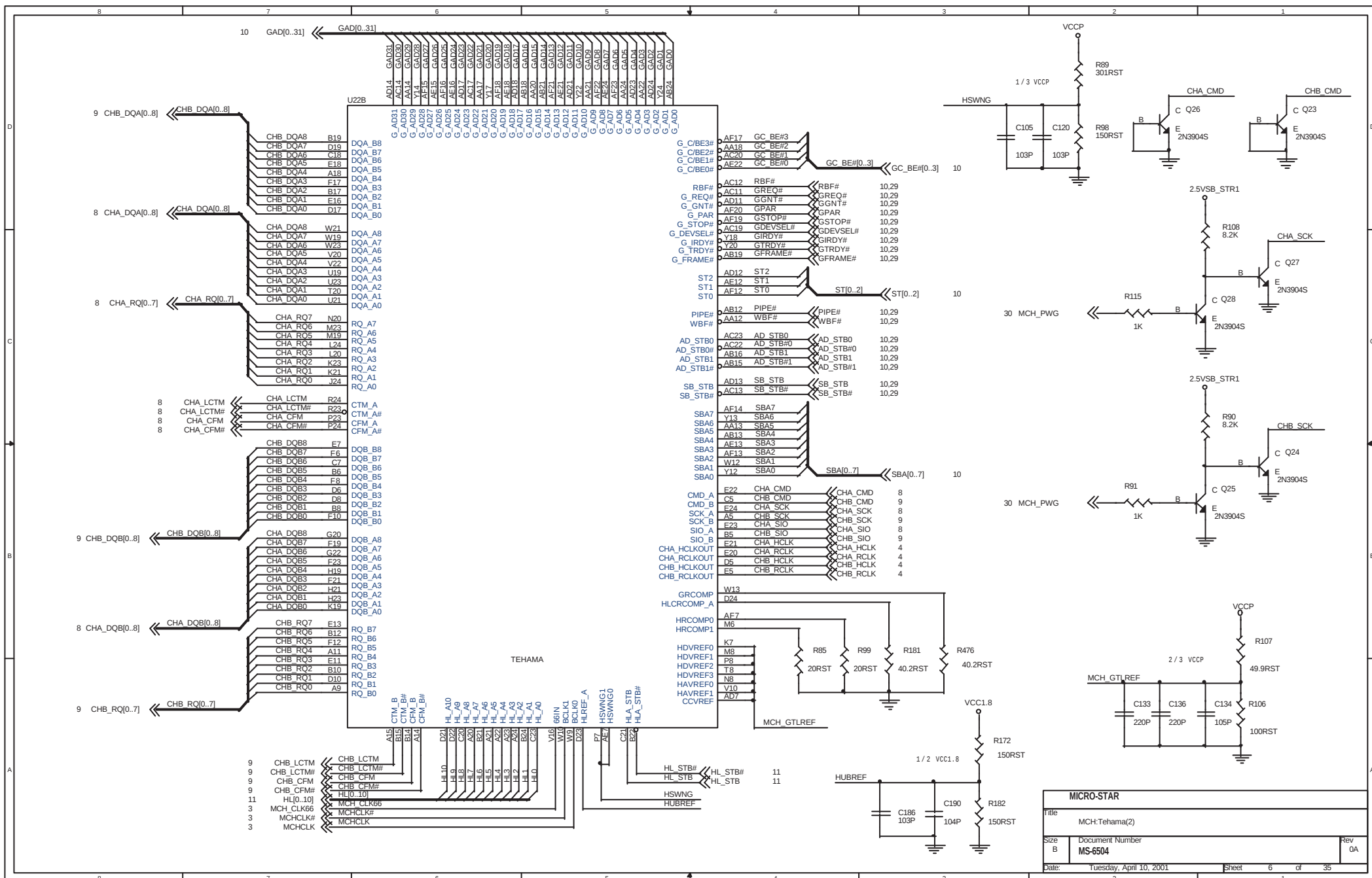


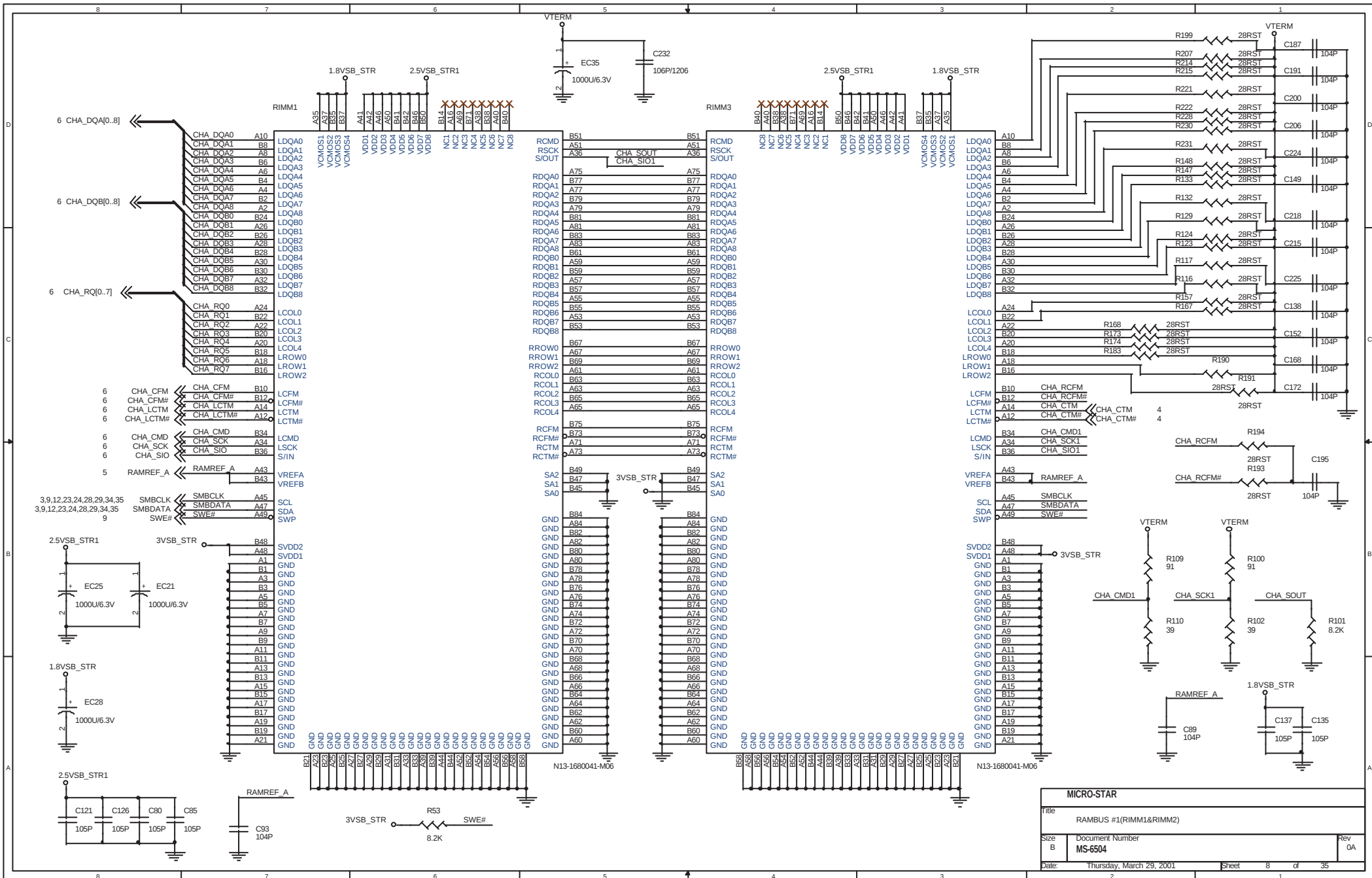


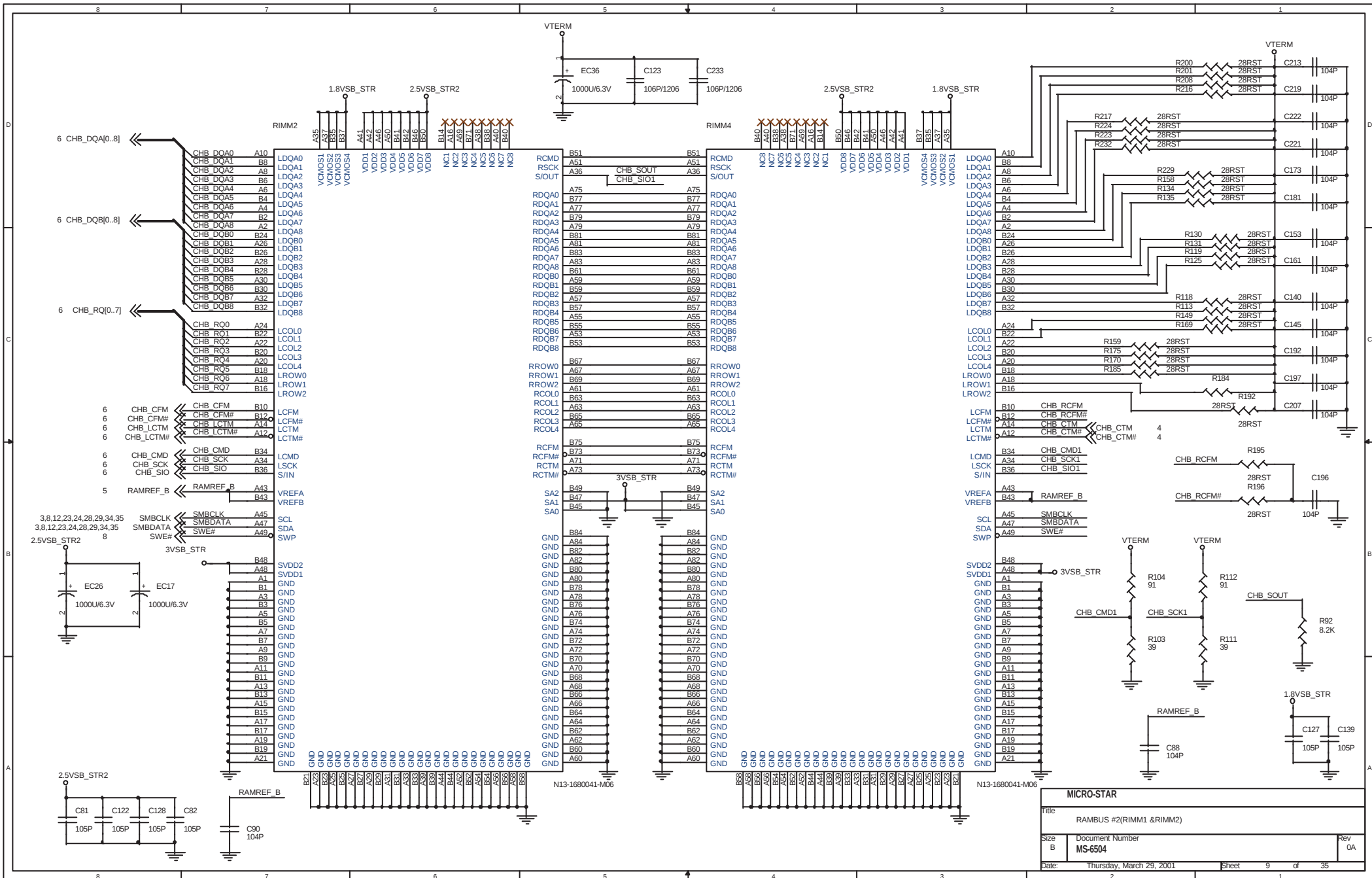
MICRO-STAR		
Title		
CK-SKS		
Size B	Document Number	
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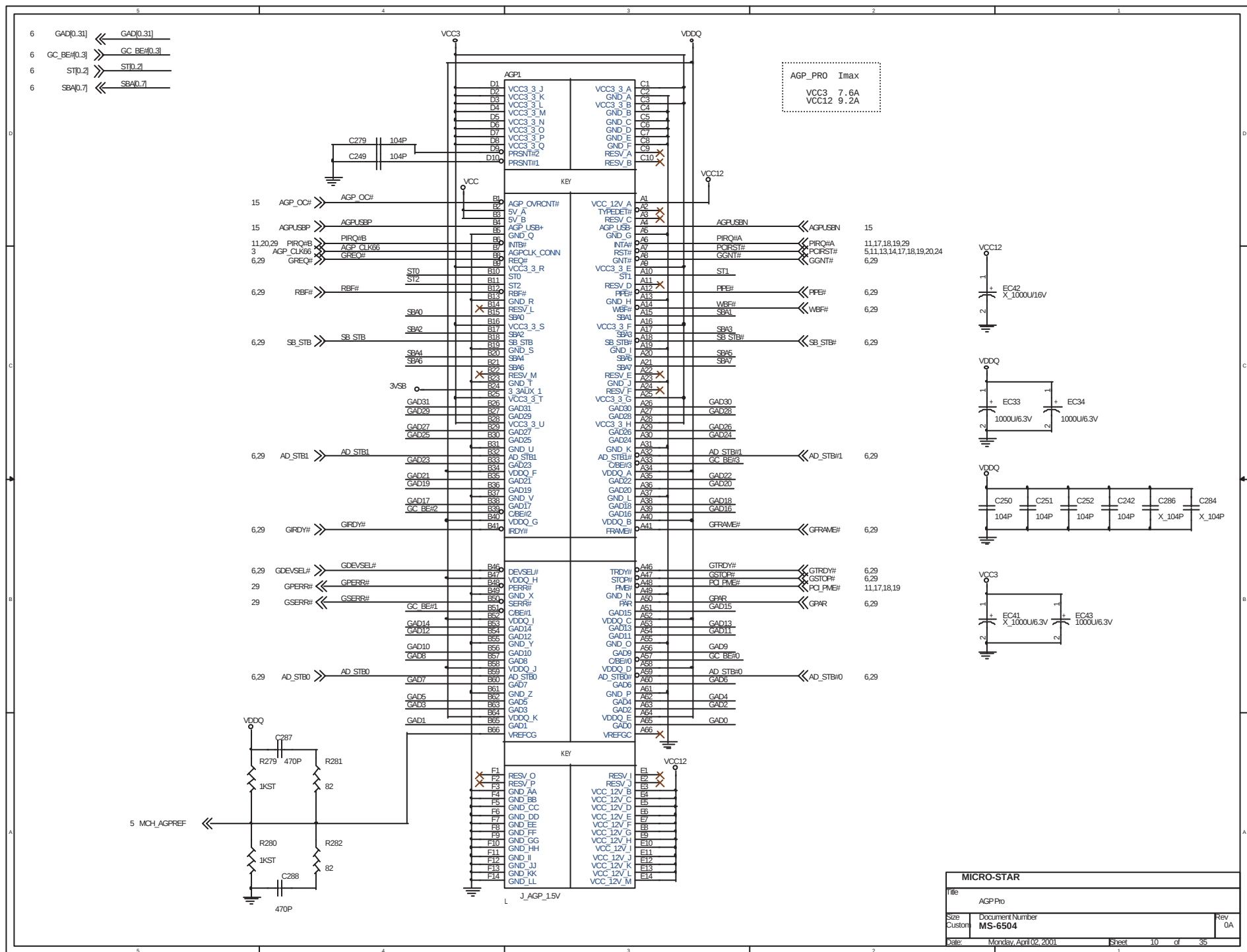


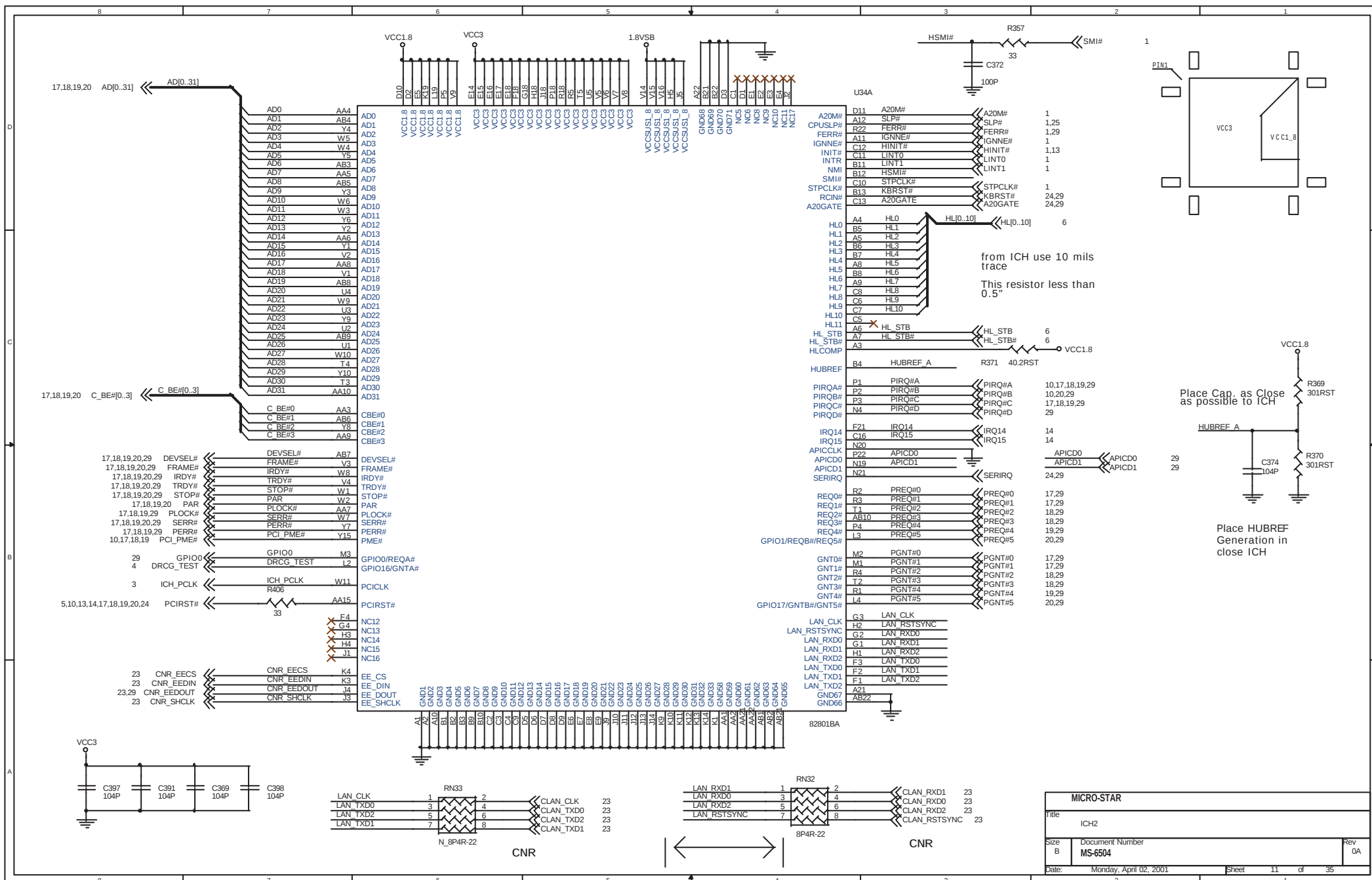


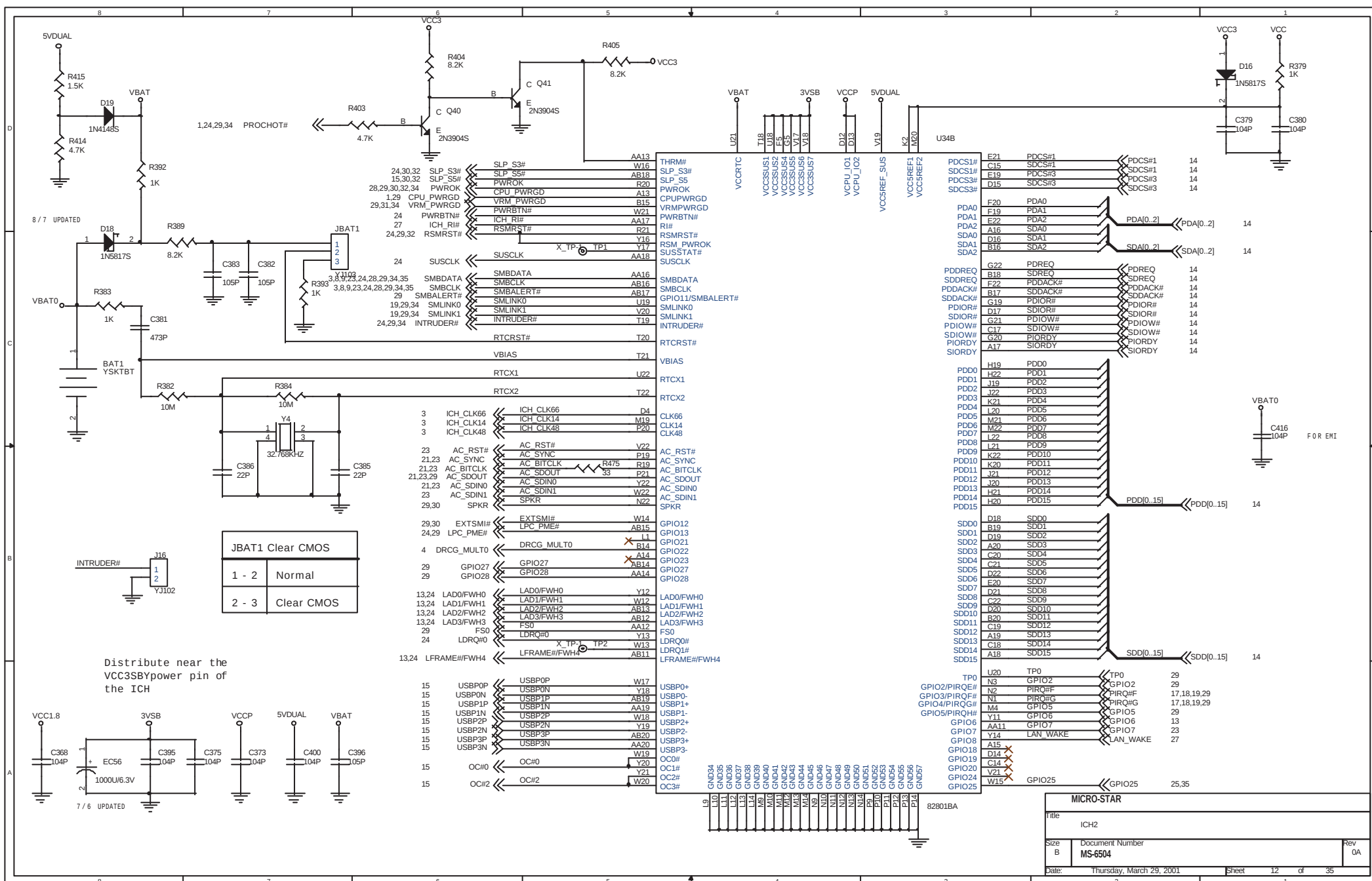


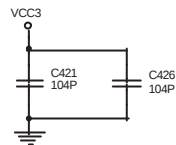
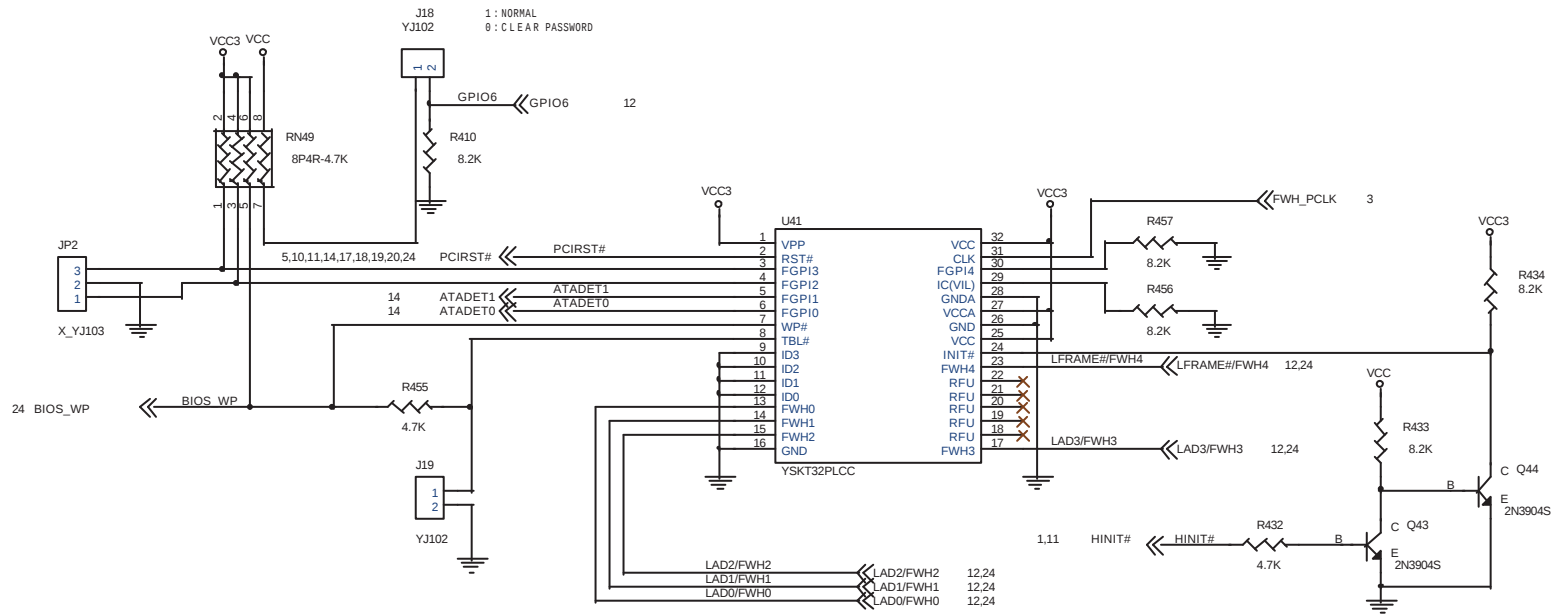


MICRO-STAR		
Title		
RAMBUS #2(RIMM1 & RIMM2)		
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JP2 Gateway	
1 - 2	Flash from FDD
2 - 3	Boot auto clear CMOS

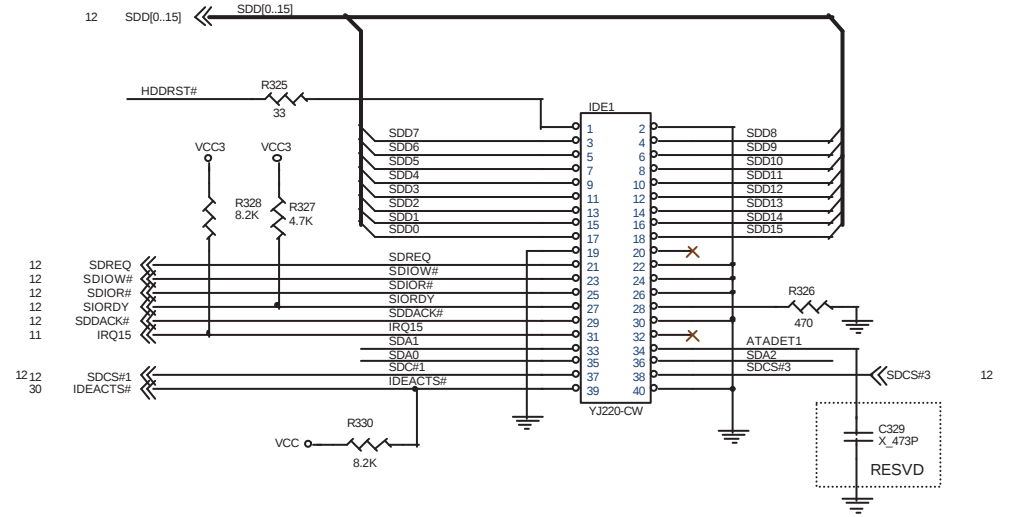
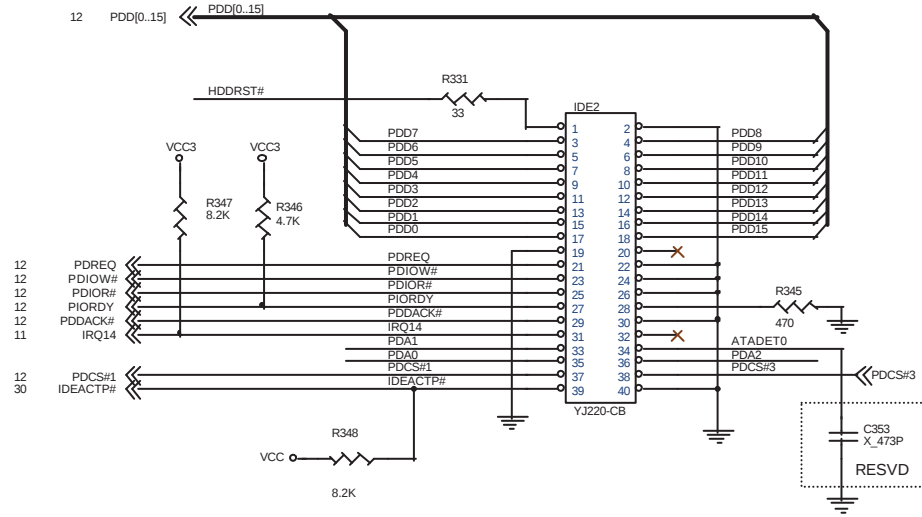
JP19 BIOS Update	
OPEN	Locked
SHORT	Unlocked

*

MICRO-STAR		
Title		
FWH		
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PRIMARY IDE CONN.

SECONDARY IDE CONN.

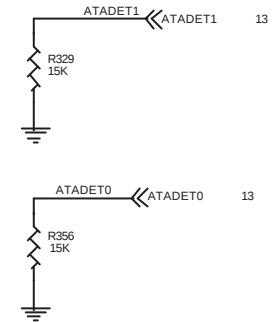
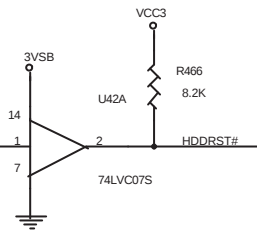


12 PDA[0..2] << PDA[0..2]

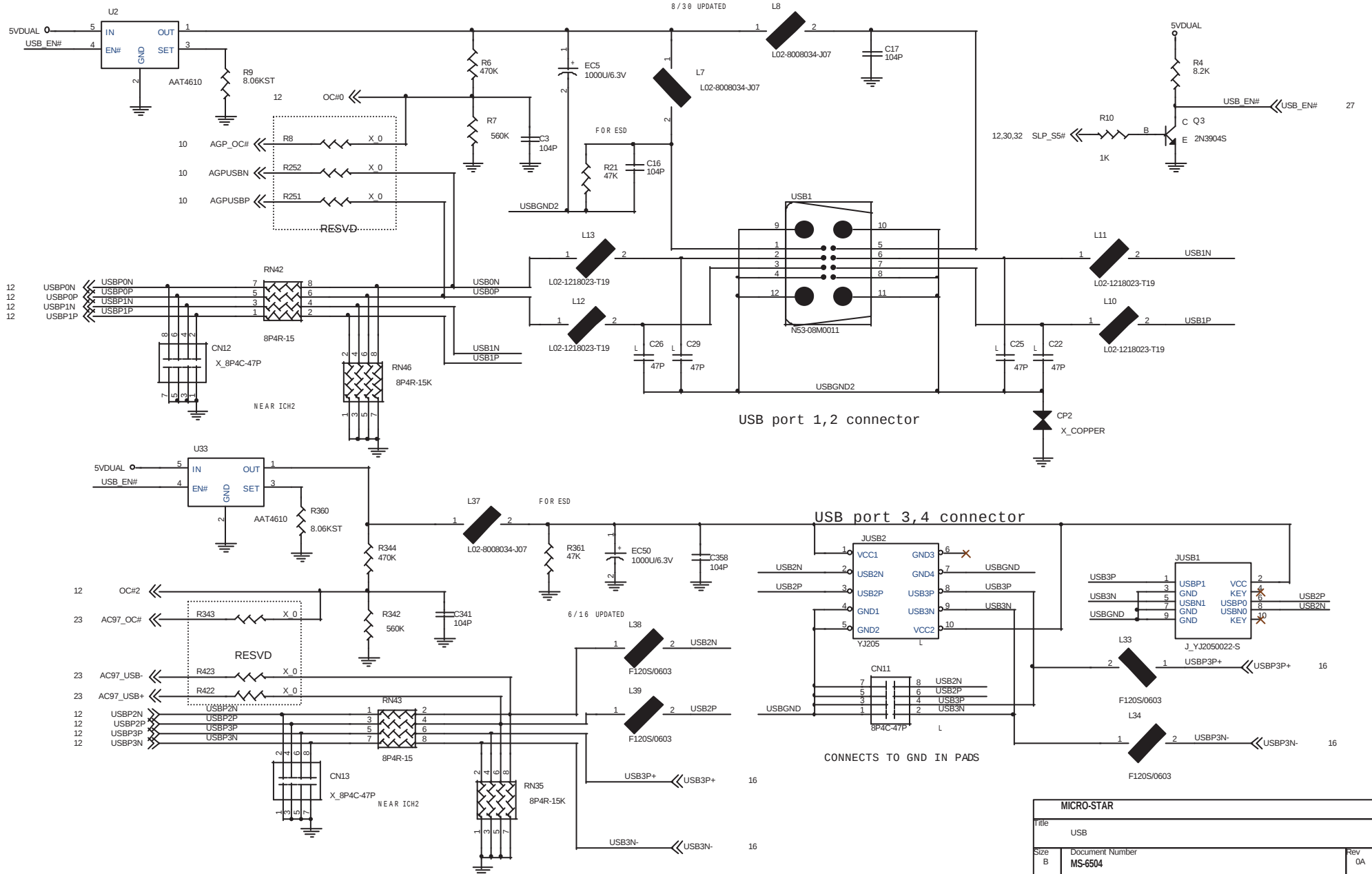
12 SDA[0..2] << SDA[0..2]

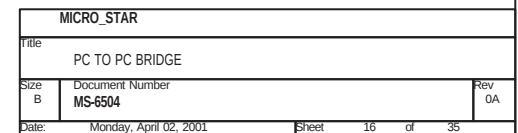
5,10,11,13,17,18,19,20,24

PCIRST# << PCIRST#

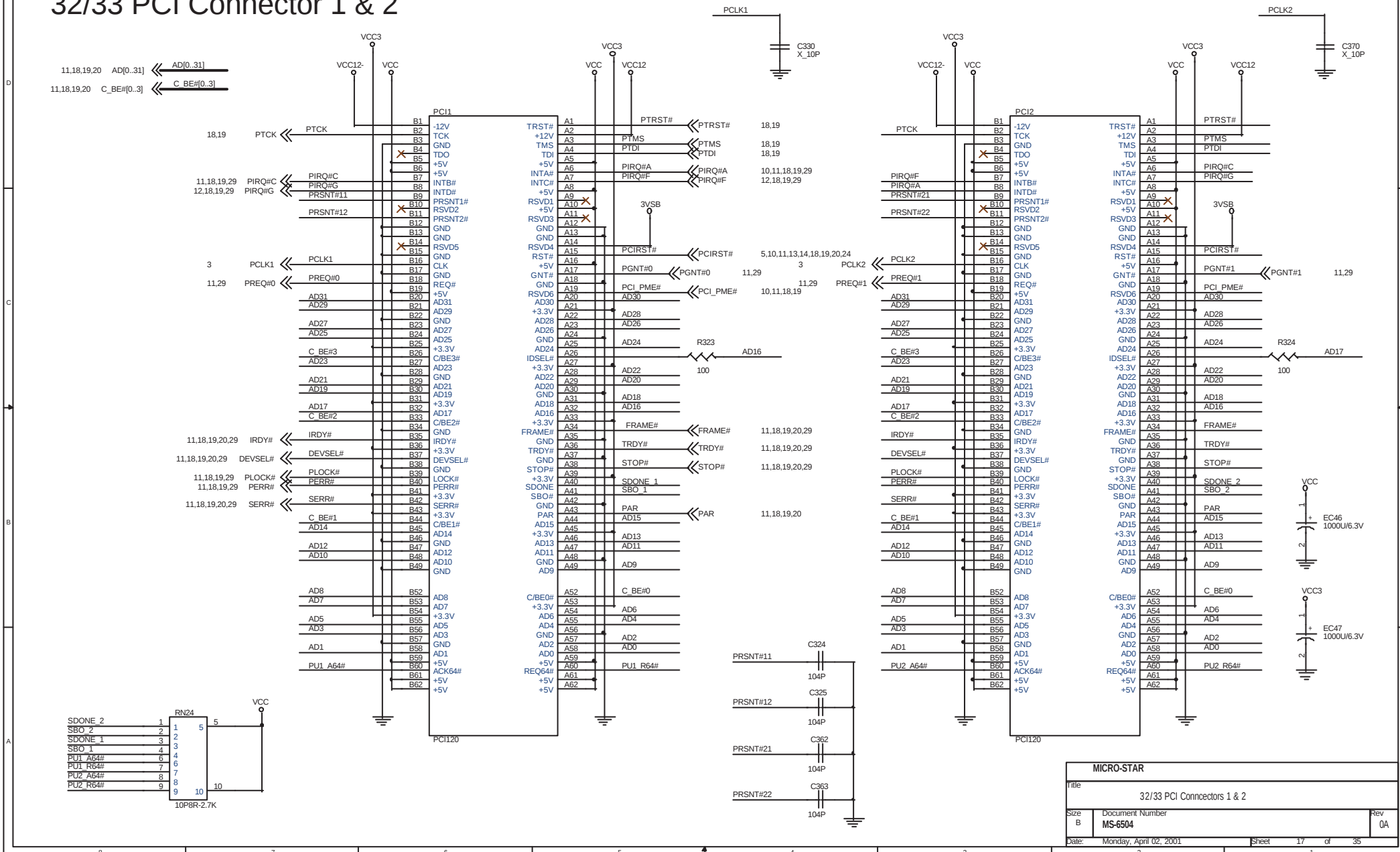


MICRO-STAR		
Title	IDE	
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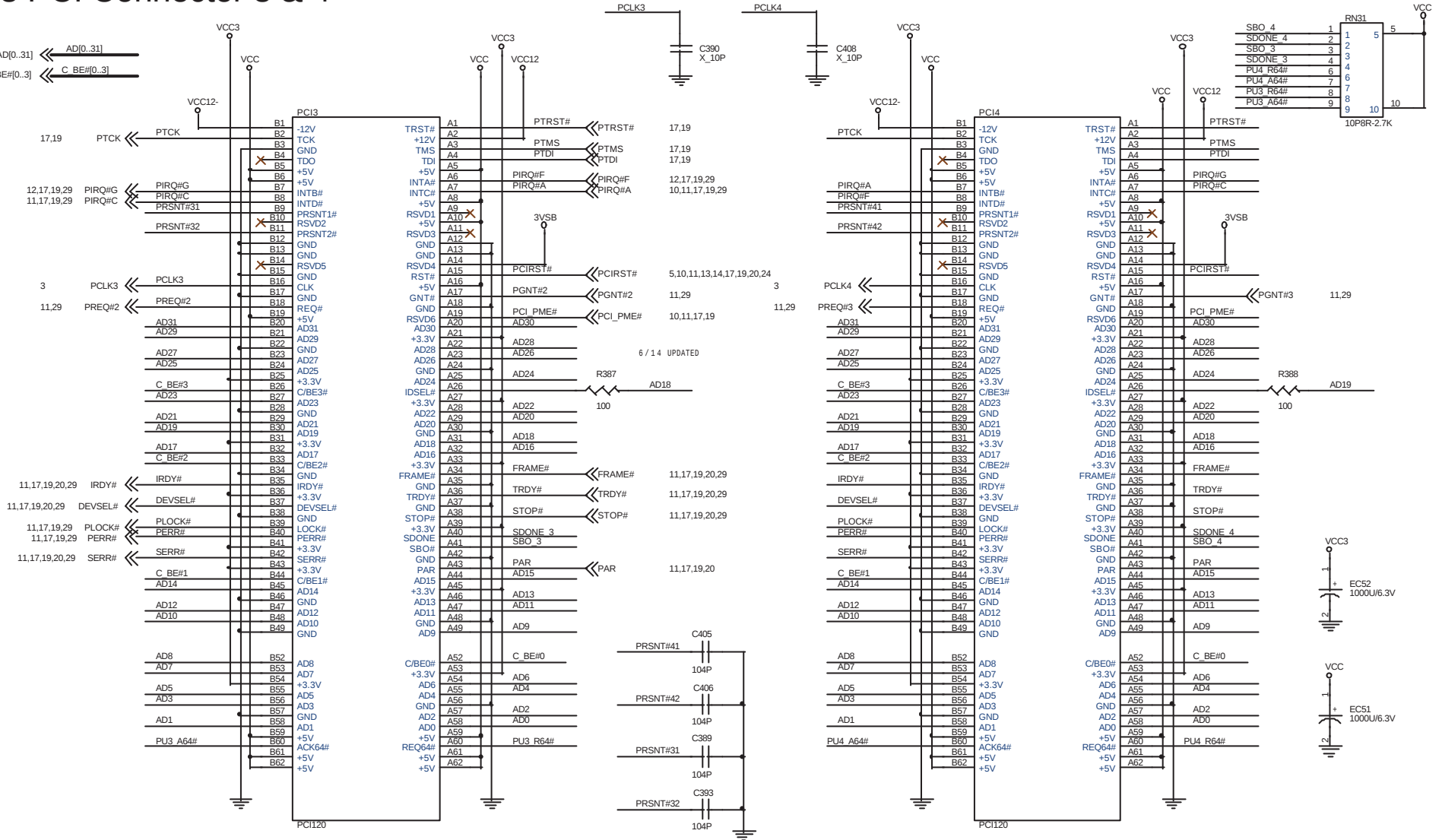
32/33 PCI Connector 1 & 2



MICRO-STAR		
Title		
32/33 PCI Connectors 1 & 2		
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32/33 PCI Connector 3 & 4

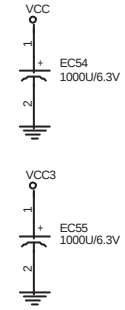
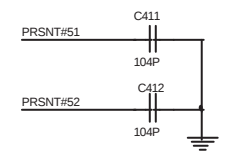
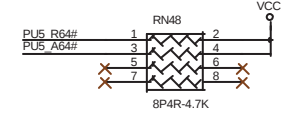
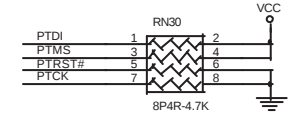
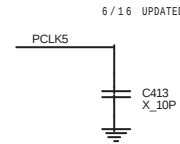
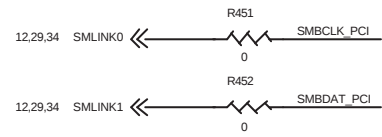
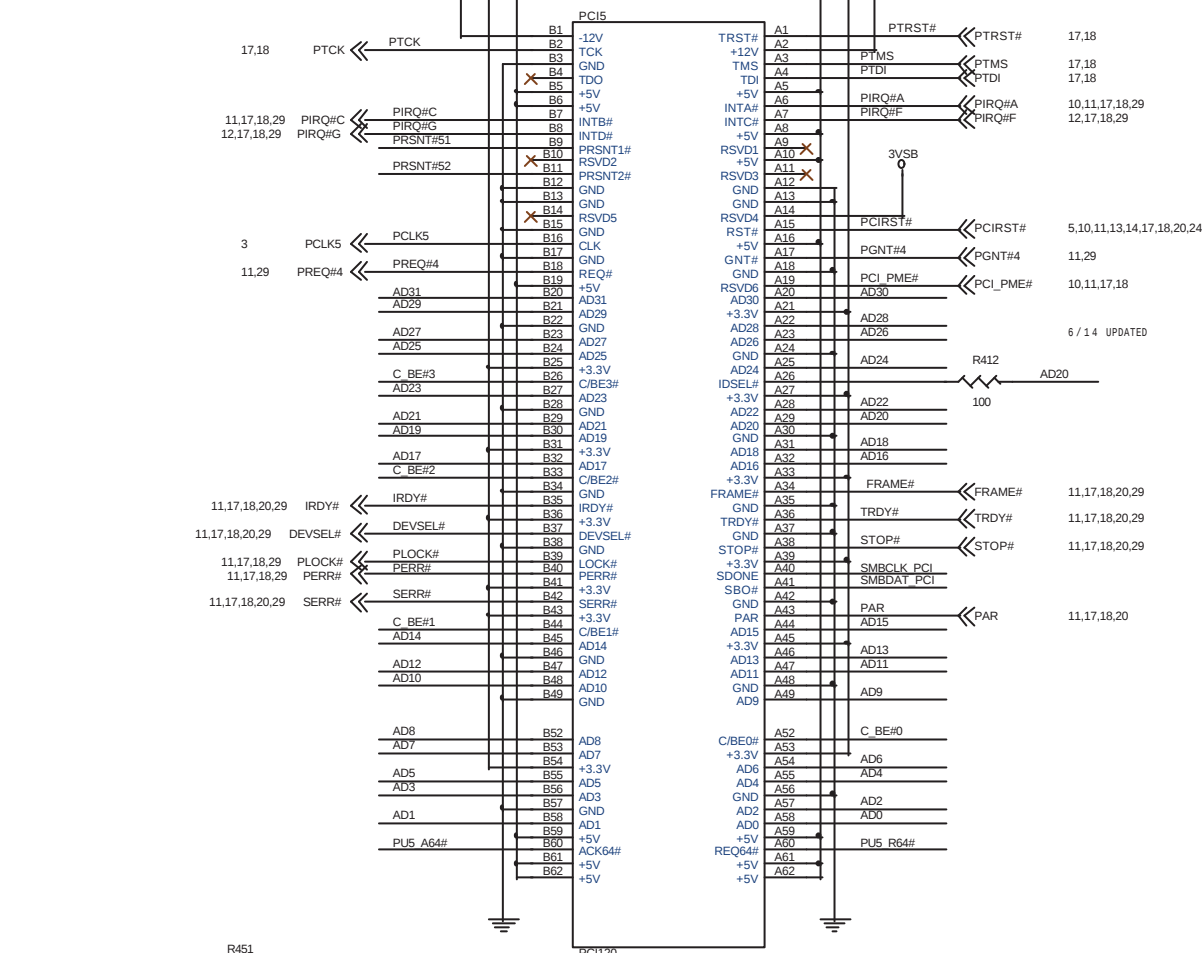
11,17,19,20 AD[0..31] << AD[0..31]
11,17,19,20 C_BE#[0..3] << C_BE#[0..3]



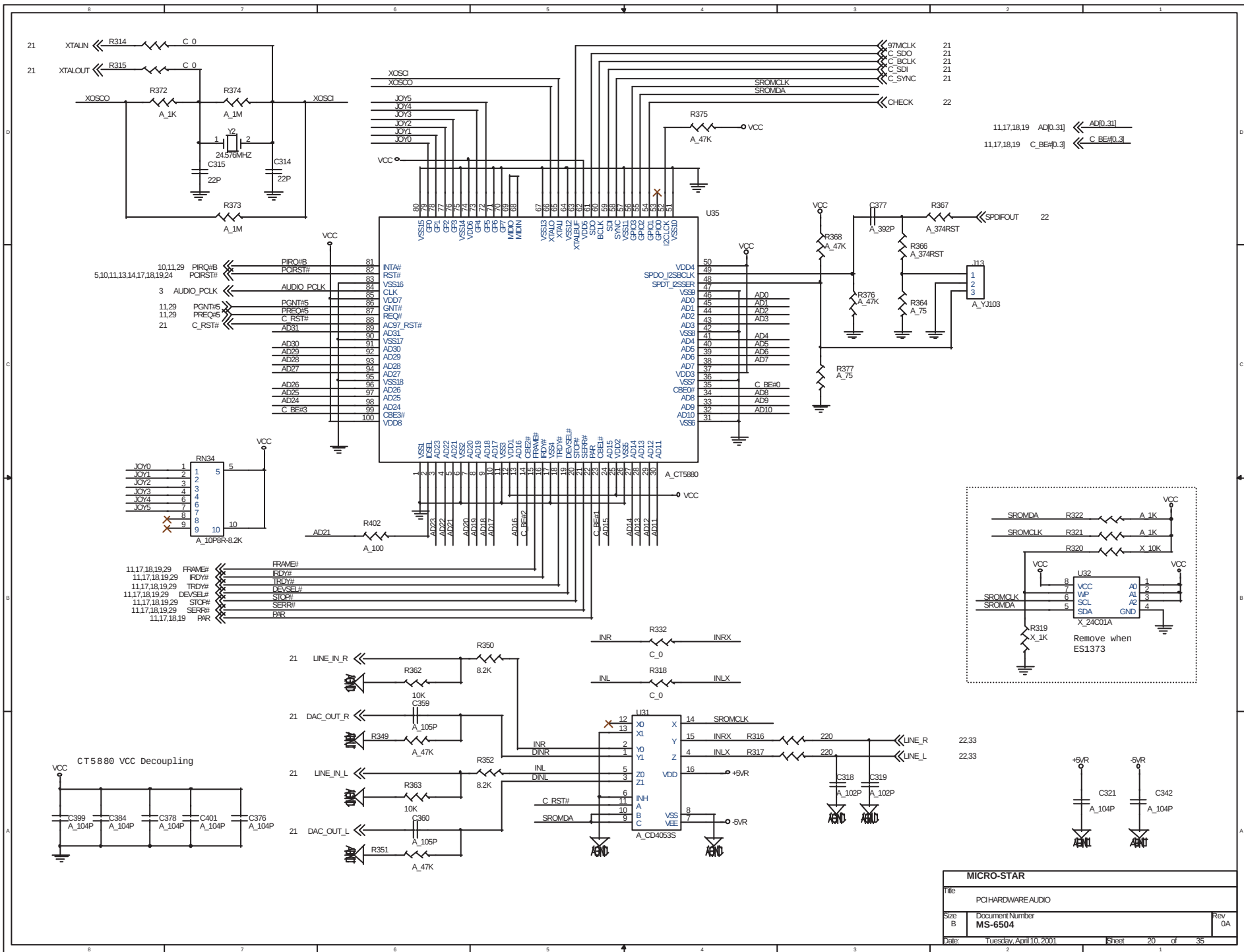
MICRO-STAR		
Title		
32/33 PCI Connector 3 & 4		
Size	Document Number	Rev
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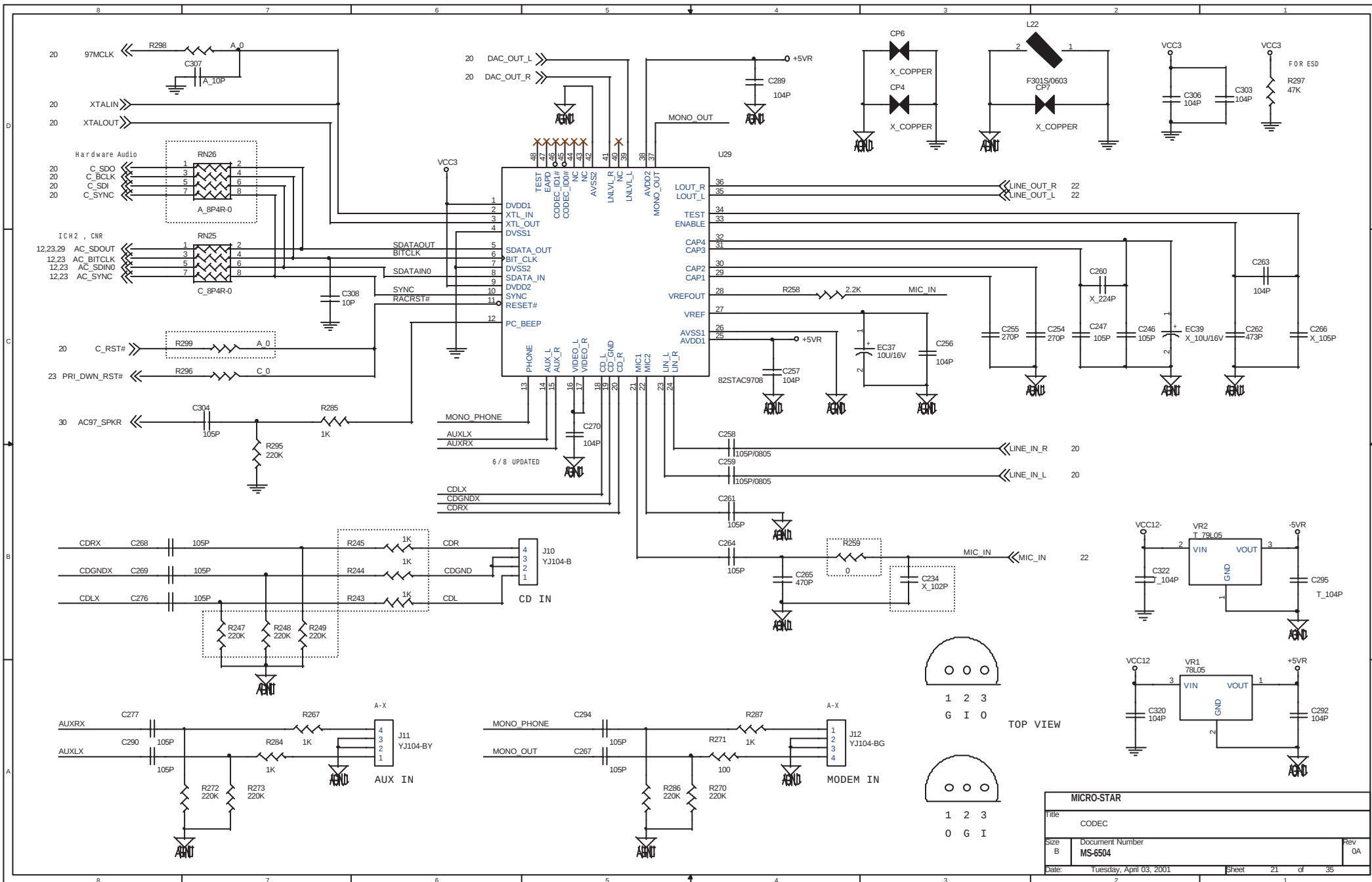
32/33 PCI Connector 5 & 6

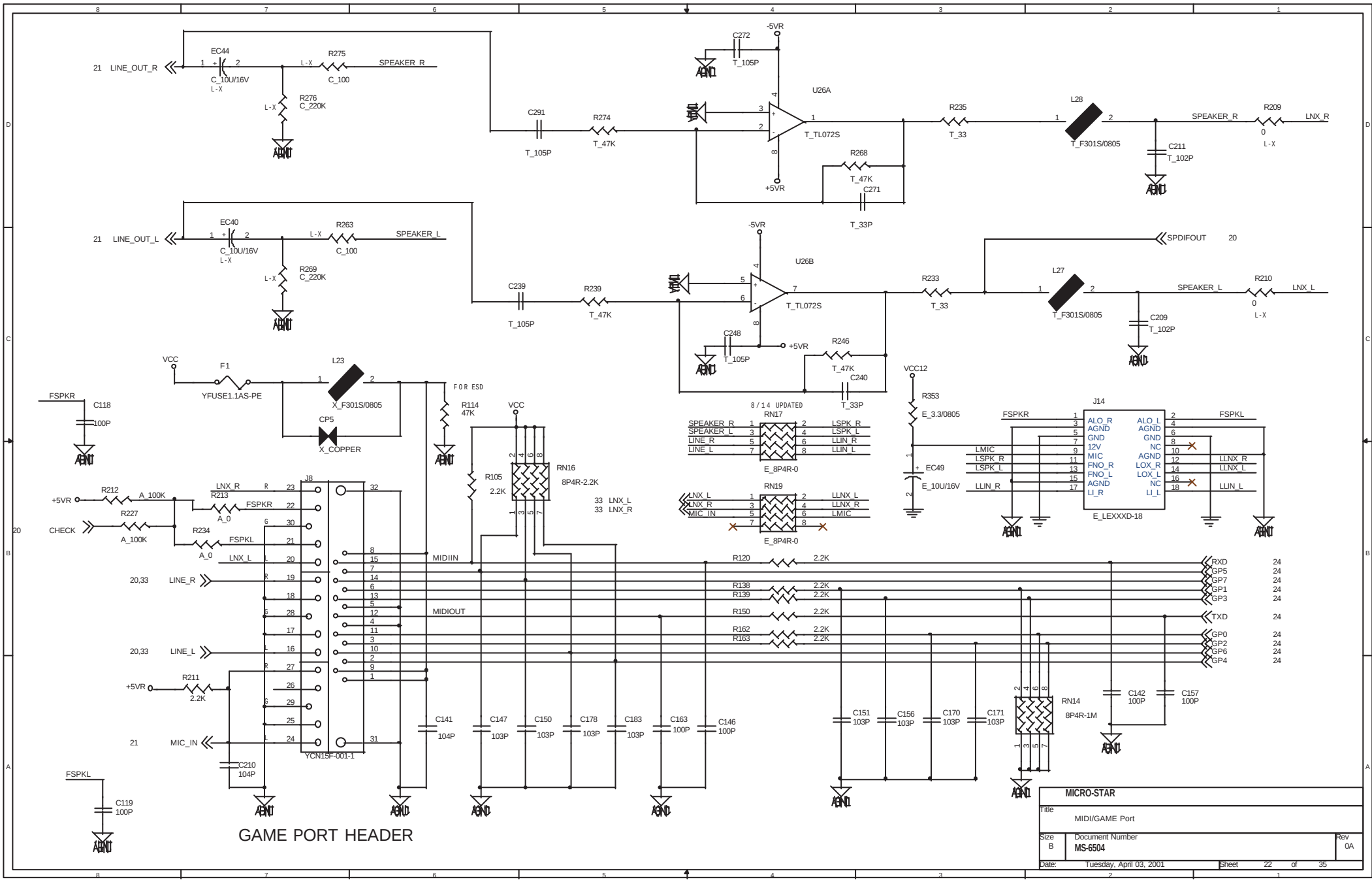
11,17,18,20 AD[0..31] << AD[0..31]
11,17,18,20 C_BE#[0..3] << C_BE#[0..3]



MICRO-STAR		
Title		
32/33 PCI Connectors 1 & 2		
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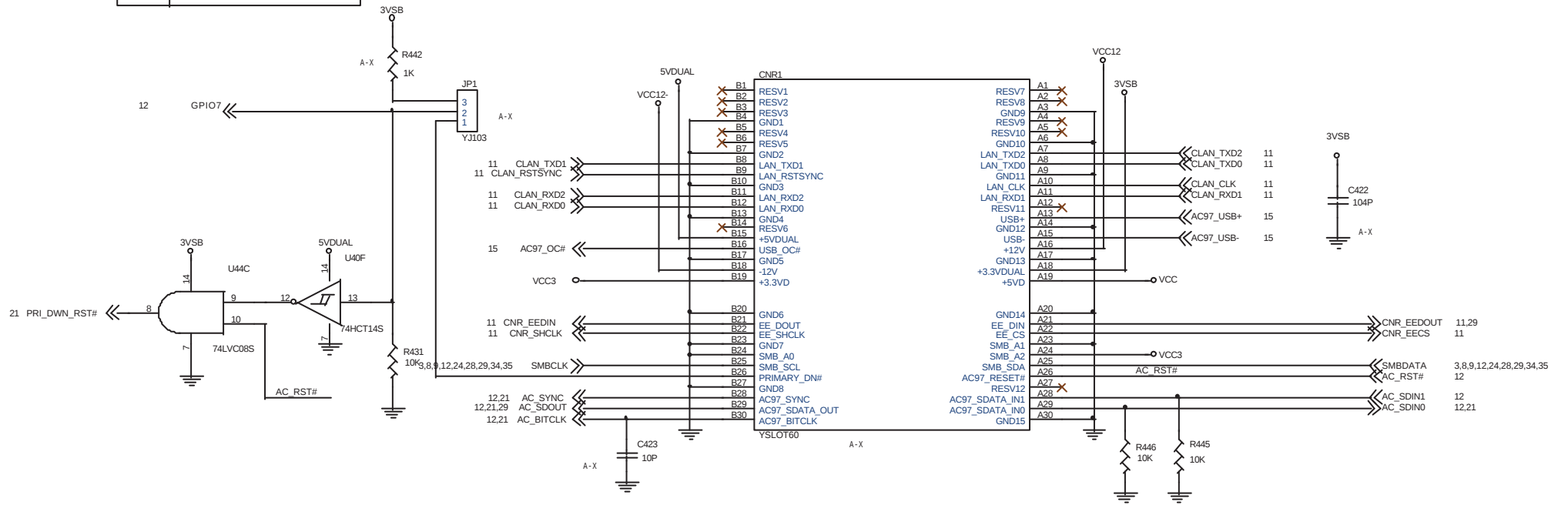




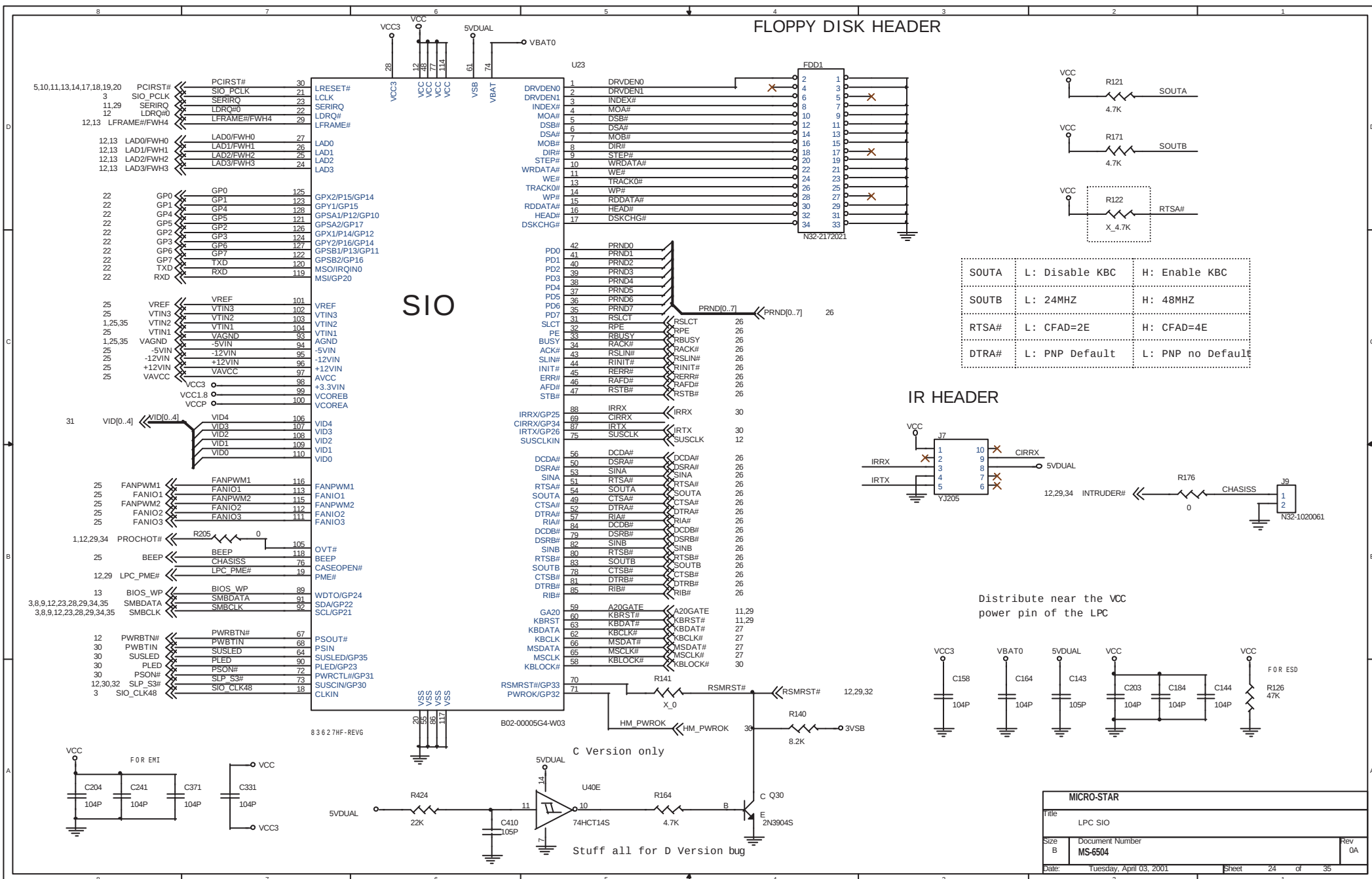


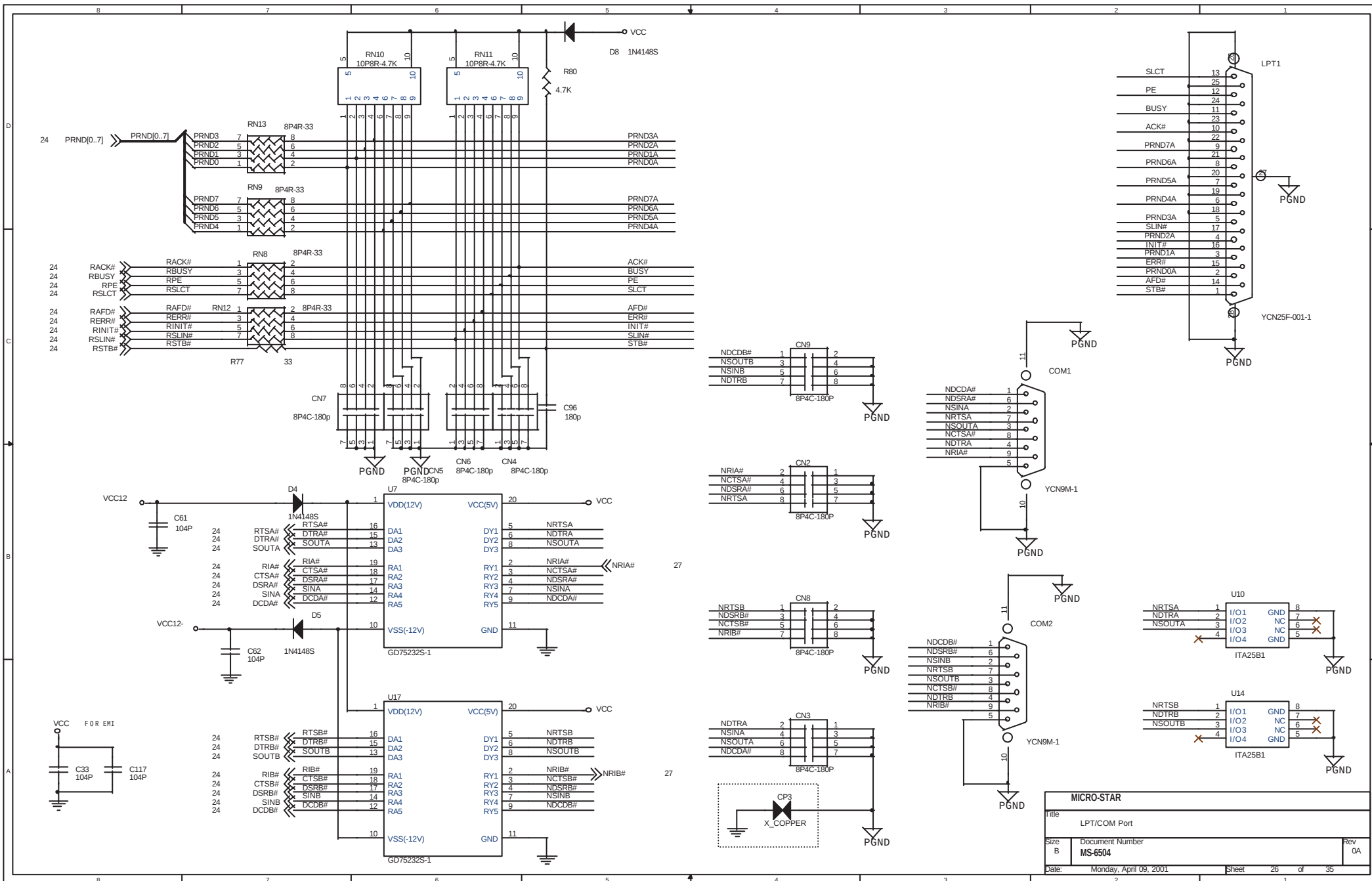
MICRO-STAR		
Title		
MIDI/GAME Port		
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JP1	AUDIO DOWN
1 - 2	Enable onboard audio codec
2 - 3	Disable onboard audio codec

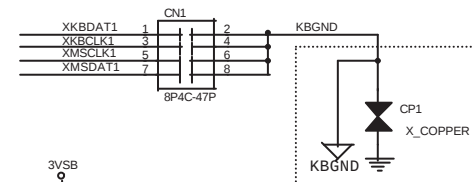
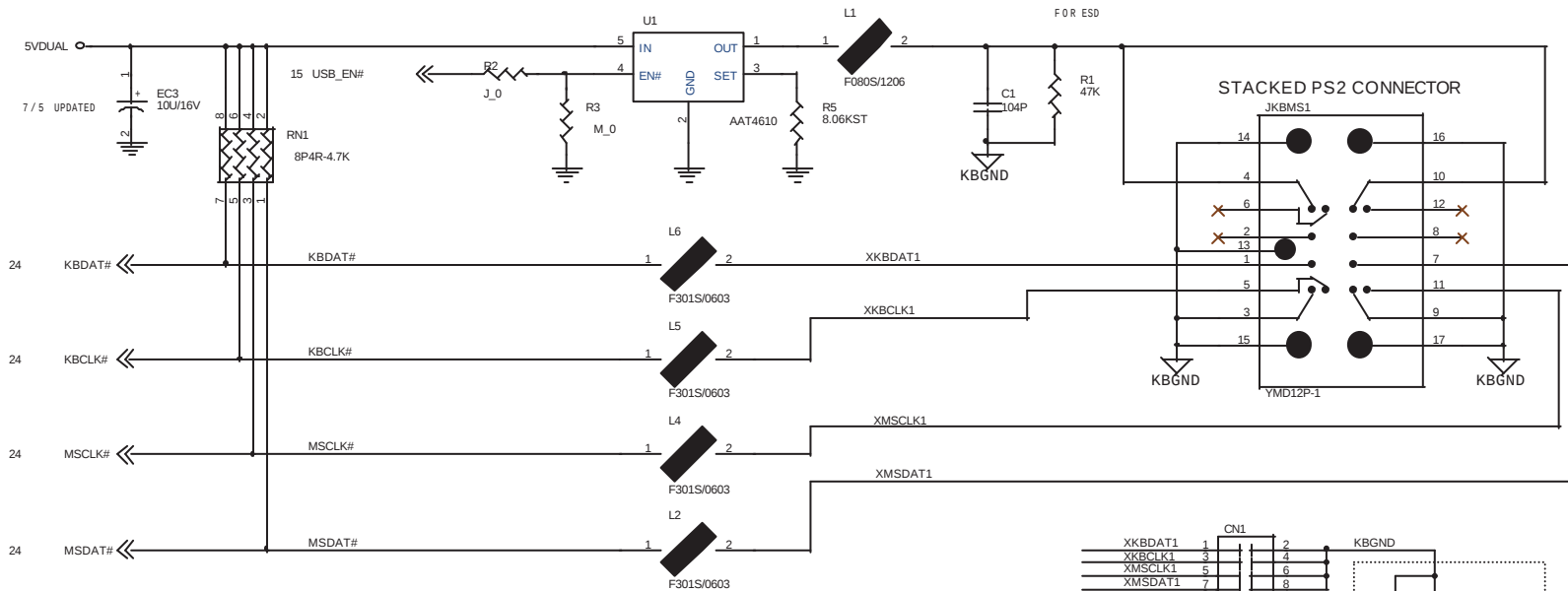


MICRO-STAR		
Title		
CNR		
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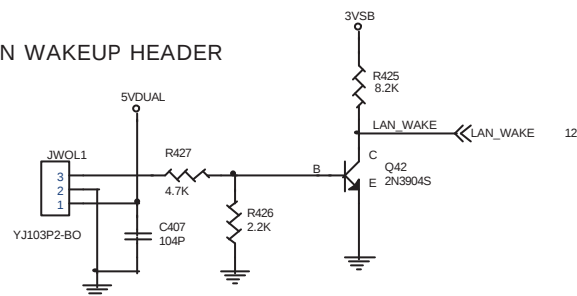




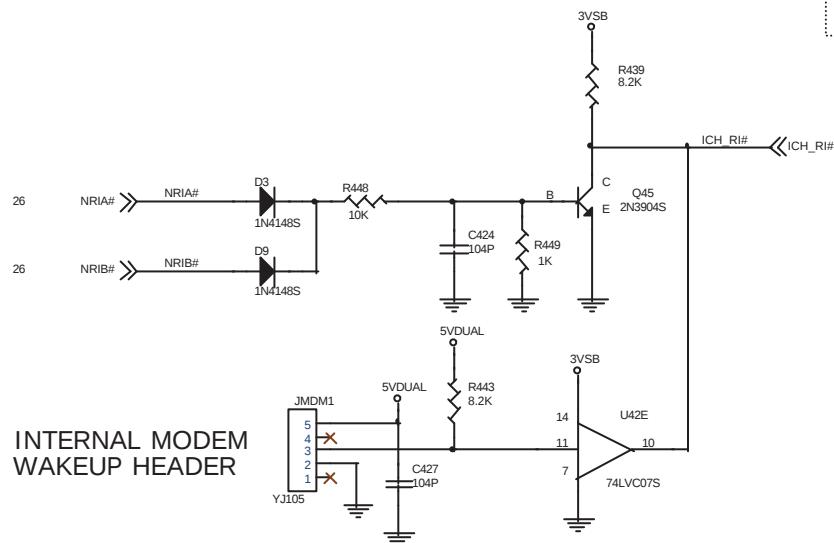
MICRO-STAR		
Title		
LPT/COM Port		
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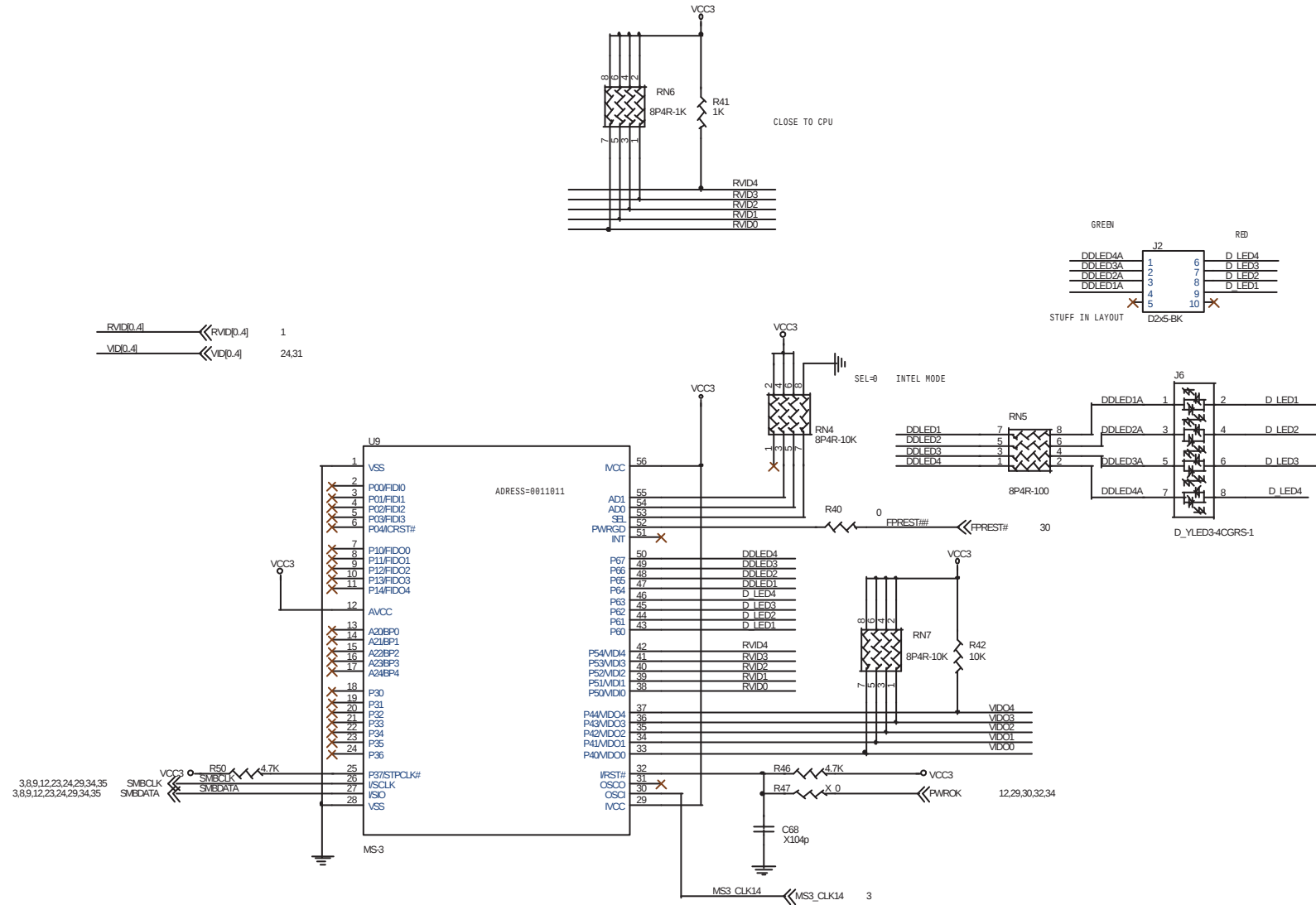
LAN WAKEUP HEADER



INTERNAL MODEM WAKEUP HEADER



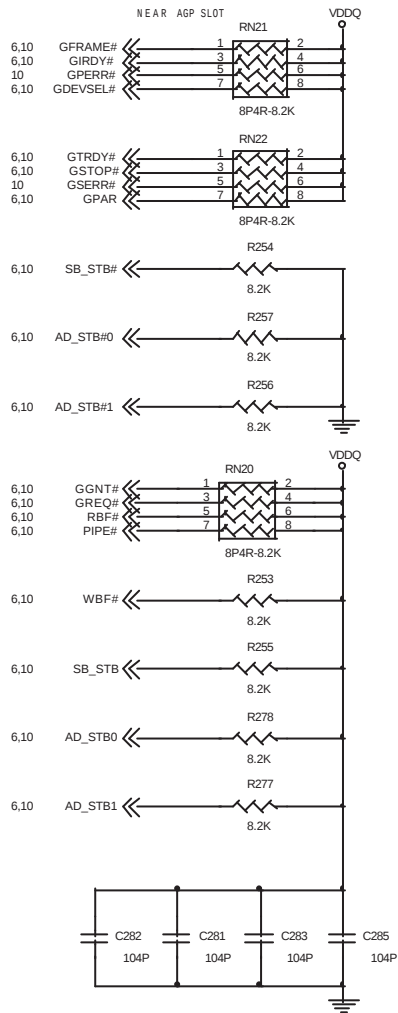
MICRO-STAR		
Title Keyboard/Mouse		
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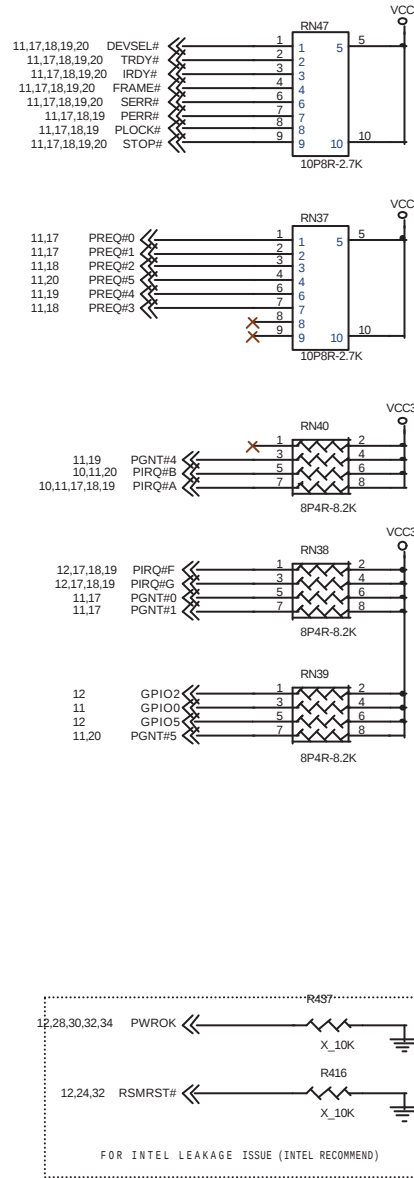
MICRO_STAR		
Title		
MS3 (VCORE ADJUSTMENT & DIAG LED)		
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PULL-UP RESISTORS

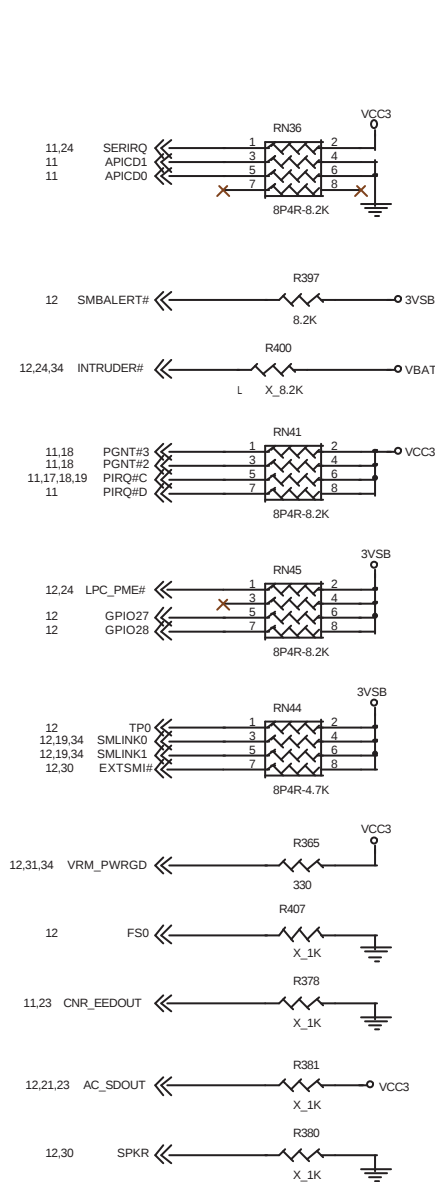
AGP



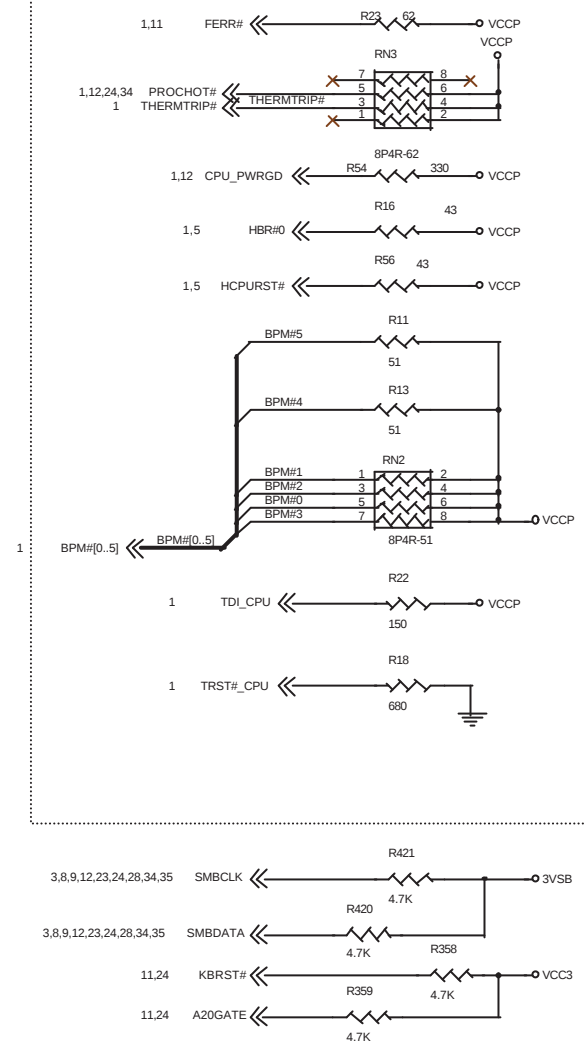
PCI BUS



ICH

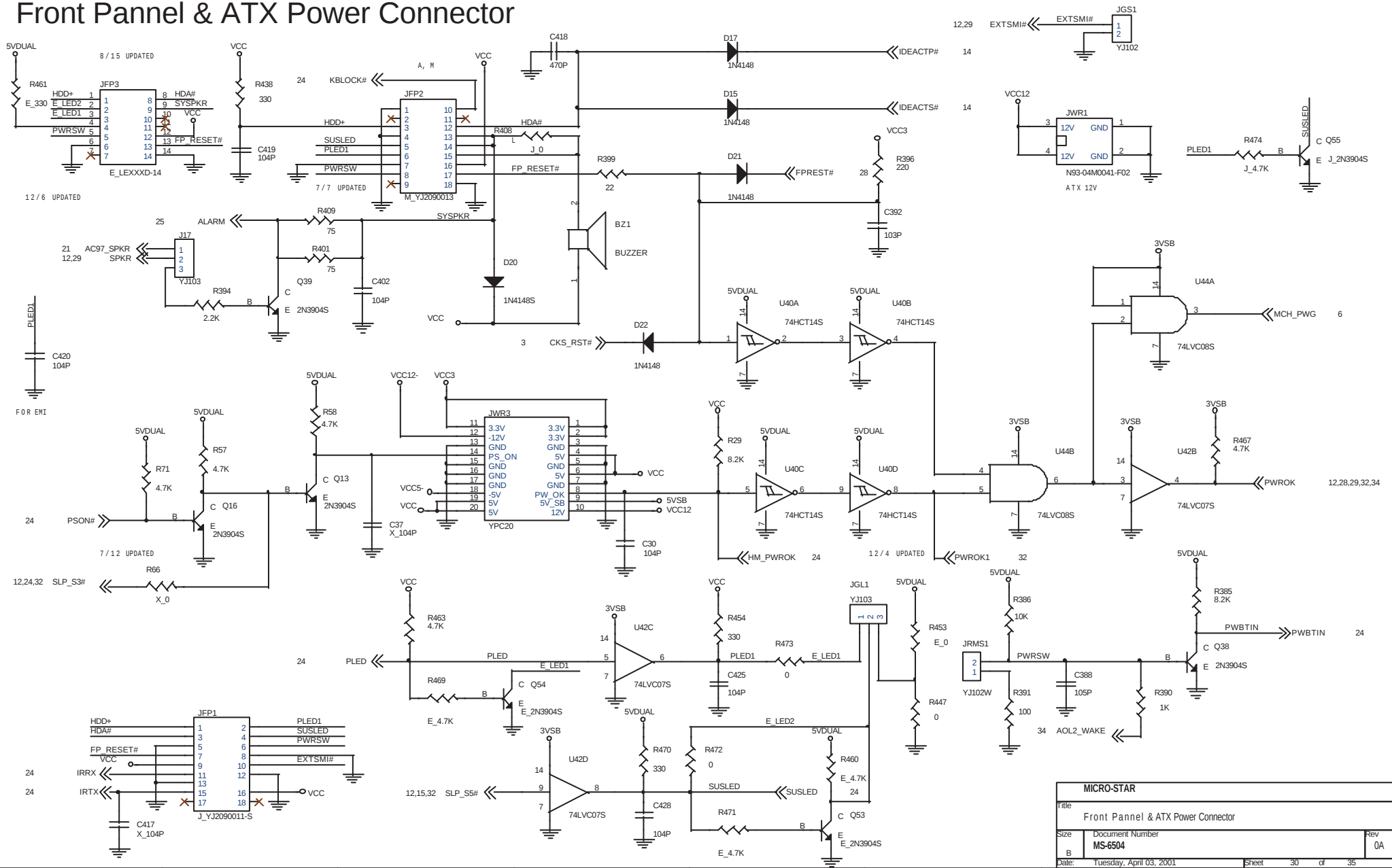


CPU

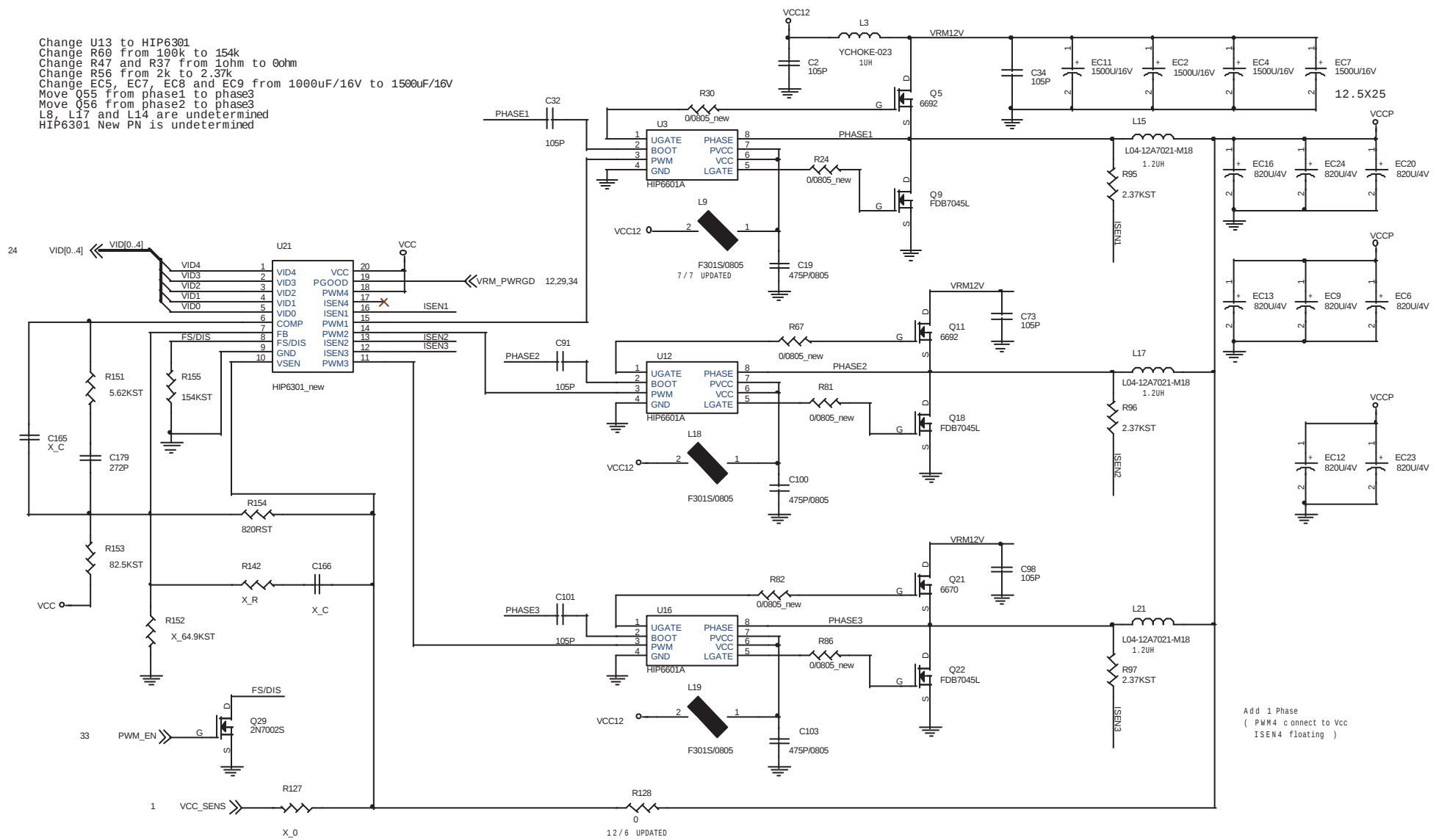


MICRO-STAR		
Title	Pull-up Resistors	
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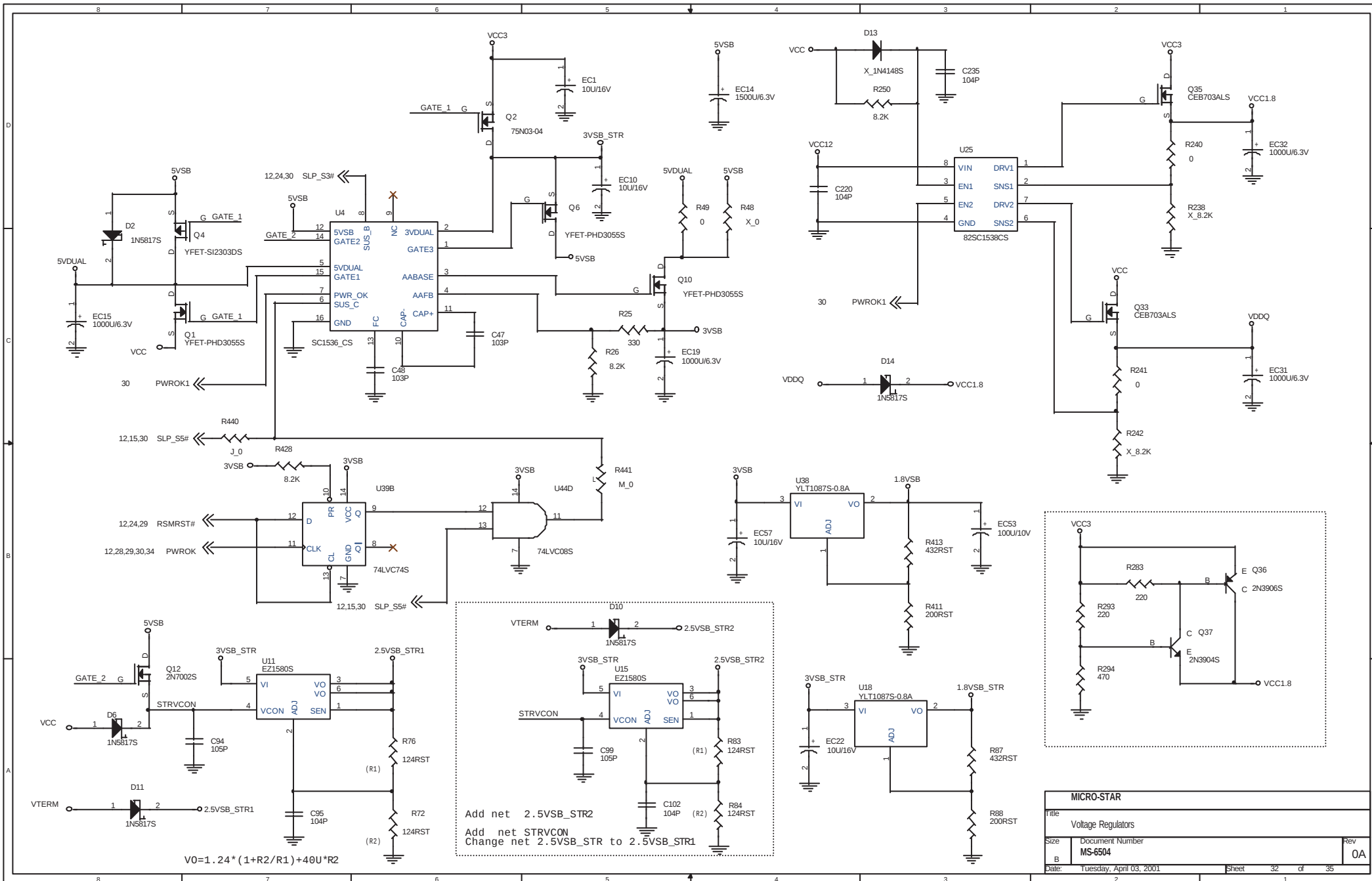
Front Pannel & ATX Power Connector

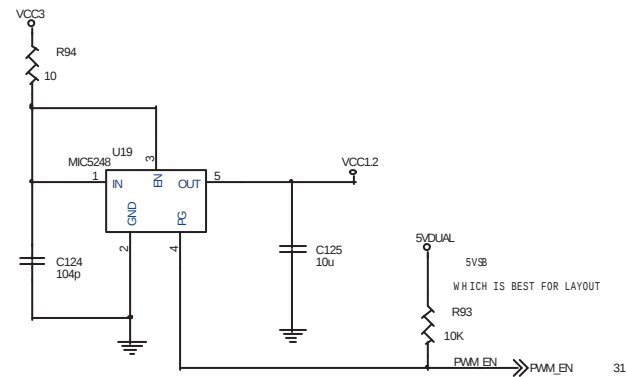
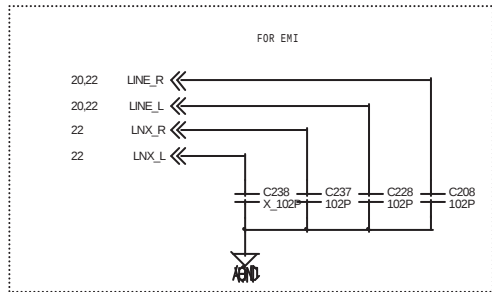


Change U13 to HIP6301
 Change R60 from 100k to 154k
 Change R47 and R37 from 10hm to 0ohm
 Change R56 from 2k to 2.37k
 Change EC5, EC7, EC8 and EC9 from 1000uF/16V to 1500uF/16V
 Move Q55 from phase1 to phase3
 Move Q56 from phase2 to phase3
 L8, L17 and L14 are undetermined
 HIP6301 New PN is undetermined

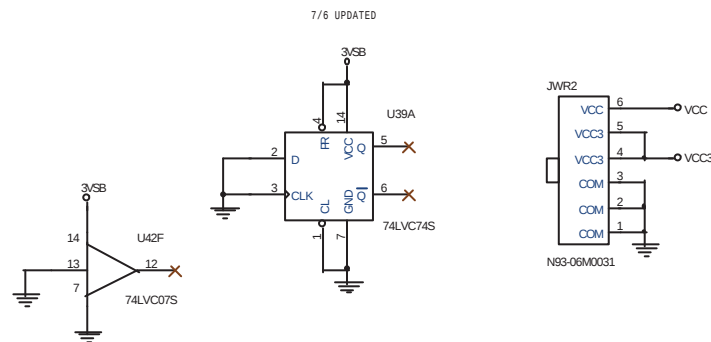
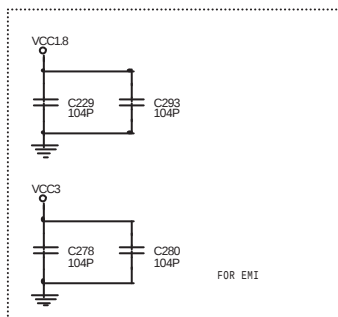
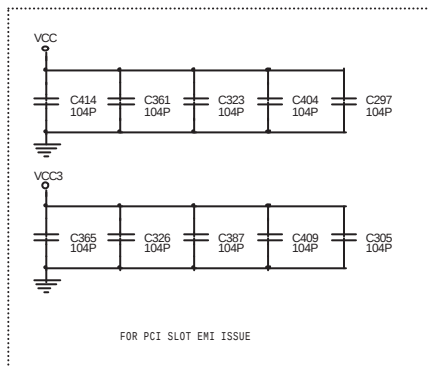
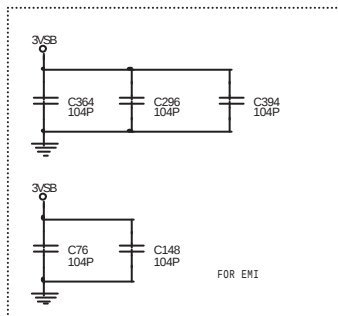
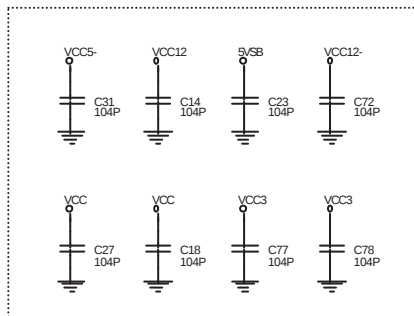


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VRM 9.0		
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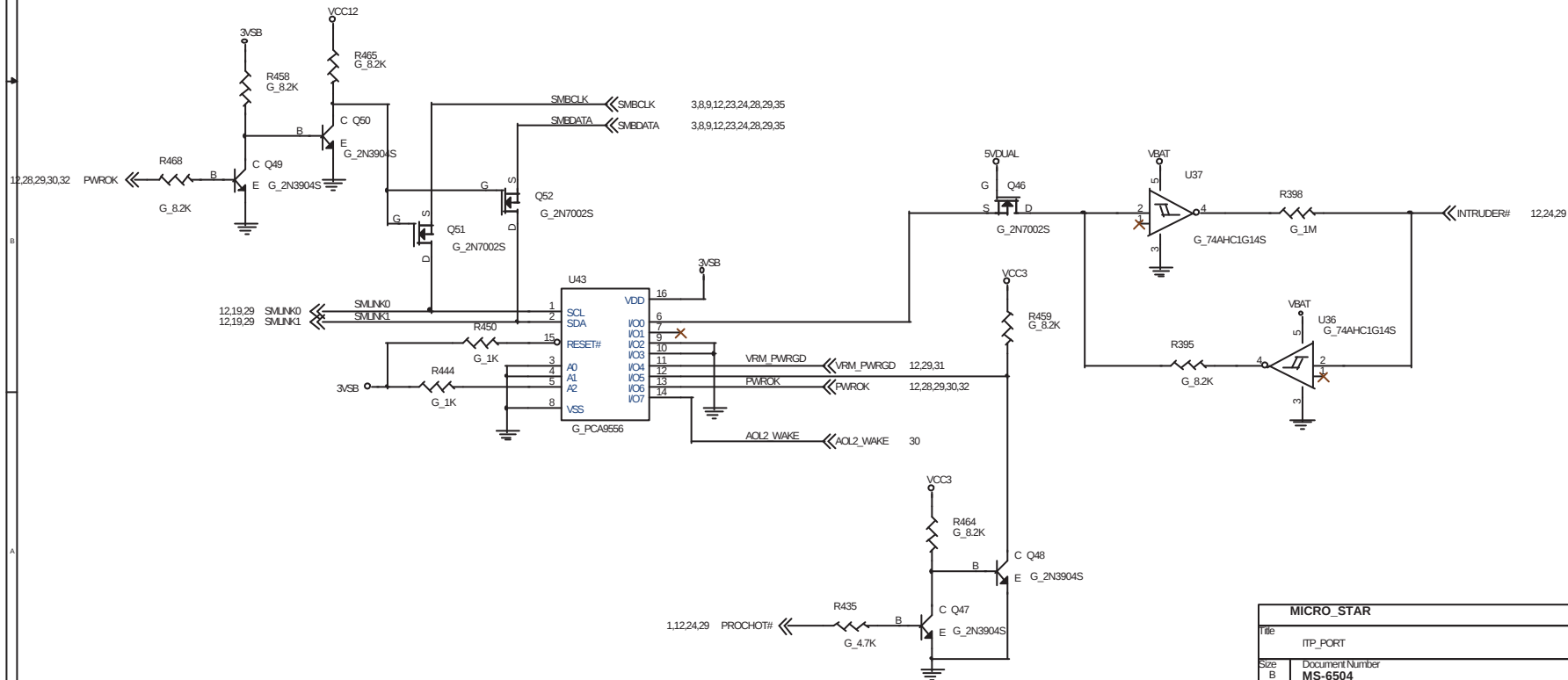
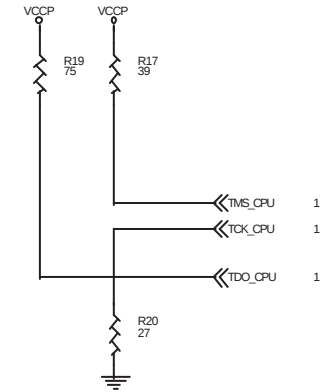
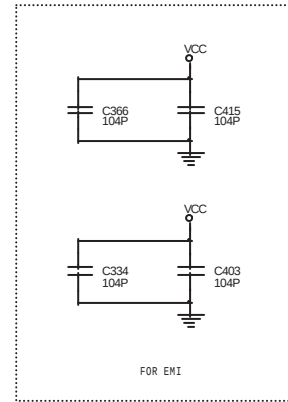
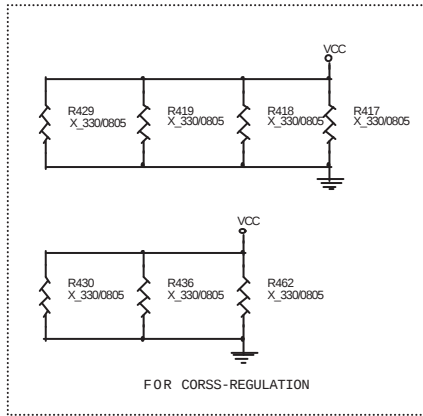
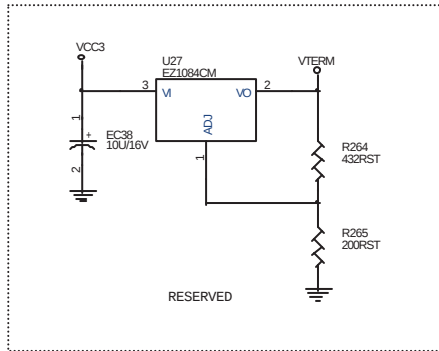




FOR NORTHWOOD CPU ONLY



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Diag LED			
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ITP_PORT		
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